POINT RUSTON

5219 N. SHIRLEY ST. SUITE 100 RUSTON, WA 98407

July 15, 2013

Mr. Kevin L. Rochlin Remedial Project Manager U.S. Environmental Protection Agency Region 10 1200 Sixth Avenue, ECL-111 Seattle, WA 98101

RE:

Monthly Report: No. 205, June 2013

Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. The report is organized to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,

Loren Cohen

Manager of Legal Affairs

Attachment (2 copies)

cc:

Peter Striplin - Washington Department of Ecology

Evan Griffiths - CH2MHill (2 copies)

Leslie Ann Rose - Citizens for a Healthy Bay

Mike Oelrich - Hydrometrics, Inc.

- a) Actions taken to achieve compliance with the Consent Decree during the previous month.
 - 1. Point Ruston personnel and its contractors hosted numerous meetings and conversations with EPA over the month of June, along with many electronic communications related to varying aspects of the project. Point Ruston and EPA conducted in-person Coordination Meetings, which included representatives of Point Ruston, EPA, State of Washington Department of Ecology and Citizens for a Healthy Bay on June 21 and also met with EPA and Department of Ecology officials on the same date to review specific storm water issues. Work continued on many various RA tasks, including work associated with the following projects:
 - ▶ Phase 1 CMP O&M
 - ➤ Waterwalk CMP O&M
 - > Temporary Cap & Storm Water Management Plan O&M
 - ➤ Sequence of Development Plan & Occupancy Plan Implementing standards or site occupancy
 - ➤ Occupancy Air Monitoring Plan Daily air monitoring and reporting
 - ➤ Long Term OMMP implementing O&M
 - ➤ Metro Parks Peninsula Park CMP RA construction ongoing
 - 2. On June 18 Point Ruston submitted the final construction report for the MICMP.
 - 3. Point Ruston continued construction of RA on the slag peninsula throughout the month of June.
 - 4. Point Ruston applied Penekrete to the concrete sidewalks installed as part of the Phase 1 CMP.
 - 5. Point Ruston continued to conduct on-site and off-site Air Monitoring per the approved air monitoring plan under the CH&SP. The daily TSP results were sent to EPA.
 - 6. Point Ruston continued to conduct daily inspections and maintenance on the TIC, and in June.

- 7. Point Ruston continued to perform all site maintenance and monitoring, including all requirements under the Site Wide Construction Health and Safety Plan as well as implementation of the OCF OMMP plan. This included collection, sampling and contracting for the hauling of the leachate. O&M also included maintaining clean work areas and roads, as well as fencing and CRZ connections between the site area and phases. O&M inspection reports conducted weekly and data is included in the site-inspection reports (see attached).
- 8. Point Ruston conducted training activities for site visitors and workers, including the following:
 - ➤ Site Safety Orientations (Clean Zone) were held for:
 - i. Three (3) site visitors and personnel of various companies
 - ➤ HAZWOPER annual retraining was verified or completed by personnel of the following companies:
 - i. One (1) NW Linings employees
 - > Other relevant monitoring or training was verified or completed by personnel of the following companies:
 - i. One (1) Point Ruston employee (Medical Surveillance)
- b) Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.
 - 1. Storm water outfall sampling, data and related activities include the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned. The South outfall was abandoned on February 15th, 2013.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from April-October, and in December and February.

In addition to the North Outfall, Point Ruston monitors an existing upland station southwest of the Grand Avenue & Ruston Way roundabout. This monitoring station is designated OSW2. Samples were collected by Point

Ruston from the outfall locations on June 3rd, 10th, 17th, 24th and July 1st. Results from samples collected are attached. There were no exceedances.

2. OCF leachate sampling, data, disposal and related activities include the following:

Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. The OCF OMMP requires inspections to correspond with monthly, quarterly, or semi-annual reporting intervals as specified by the Response Action Plan. However, Point Ruston inspects LCRS and LDCRS volumes daily. LCRS volumes currently average approximately 95 gallons per day. Point Ruston currently ships 4,700-5,000 gallons approximately every 50 days. Leachate disposal was not required in June.

3. Air Monitoring, sampling, data and related activities include the following:

Point Ruston performs perimeter (off-site) air monitoring for arsenic and lead analysis at two locations: NW corner of OCF and south ridge of OCF (vault #1). Point Ruston also performs occupancy (on-site) air monitoring for arsenic and lead analysis at three additional locations: Lot 4B (nursery), Lot 1A and Lot 14. Results for samples collected June 1st through June 30th are attached. There were no exceedances.

Point Ruston performs monitoring for total suspended particulates (TSP) with a 24-hour daily average trigger level of 81 µg/m³. A long-term dust monitoring network consisting of three (3) real-time dust monitors was installed on March 15, 2013. Currently the TSP e-sampling stations are installed in the following locations: Lot 1A (paired with Hi-Vol), Lot 12 and Lot 15A. The TSP monitors transmit 5-minute average TSP readings to a host computer that logs and calculates the data into 60-minute averages. If 60-minute averages exceed the trigger level the host computer will generate an email and/or text notification to designated personnel who will investigate and take appropriate action. Air monitoring details, including corrective actions, are found in Appendix A of the Development and Occupancy Plan. TSP data is evaluated and recorded daily.

A fourth real-time air monitor, which is not connected to the monitoring network but is manually checked daily for its TSP readings, is utilized on a temporary basis, and is currently positioned near the boundary of Lots 16 and 17. TSP data is compared with the data collected by the network. This station will become permanently connected into the network as part of the occupancy plan under the Peninsula Park CMP.

Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1) (a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring (Exposure Evaluations) was not required in June.

4. Methane gas monitoring sampling, data and related activities include the following:

Point Ruston performs subsurface methane gas monitoring pursuant to the EPA approved "Building 2B Sampling & Analysis Plan – Subsurface Gas Monitoring Activities" plan. In 2009 a passive gas extraction system was installed in conjunction with the 2B-West building foundation. Four (4) vent pipes were roughed-in through the floor slab. Sampling at these locations has been ongoing, pursuant to ASTM E2600. A misunderstanding resulted in no sampling for the month of June. Gas Monitoring will resume in July. No methane has been detected to date. Methane monitoring of the passive extraction system will continue.

5. Miscellaneous soil sampling, data and related activities include the following:

Point Ruston performs miscellaneous on-site soil sampling related to its various ongoing RA work and development. Soil sampling was not conducted in June..

- c) Work Plans and other deliverables completed and submitted during the previous month.
 - 1. Plans and Documents included the following:

Temporary Cap Plan & Site-Wide Storm Water Plan

EPA issued condition approval of the TIC Plan on April 22nd. A final asbuilt report is tentatively scheduled to be by August.

Waterwalk CMP

Point Ruston submitted the Draft Construction Report on March 8, 2013, and is awaiting initial comments. EPA requested that the Draft Construction Report be resubmitted on June 25, 2013.

Master Infrastructure CMP (MICMP)

The Final Construction Report was submitted to EPA in June.

Operations Maintenance and Monitoring Plan (OMMP)

The OMMP was re-submitted to EPA on May 10th, 2013, which incorporated the final comments from EPA. Point Ruston and the EPA reviewed CH2MHill final comments in the monthly meeting in June. Point Ruston is awaiting EPA's final approval.

Sediment Capping RA

EPA issued a Certification of Completion for the sediment cap on June 24, 2013.

Peninsula Park CMP

Point reviewed the draft comment response letter for the Peninsula Park CMP on multiple occasions throughout June.

2. Remedial Action included the following tasks:

OCF construction activities:

Maintained leachate collection system; inspected storm drain system, vaults and cover; maintained the temporary storage area related to site-wide grading and Temporary Cap construction.

Stack Hill construction activities:

The lots and final cover of clean soil continue to be maintained. Mowing and other typical site maintenance occurred in June.

Phase 1 CMP construction activities:

All RA activities are complete, and O&M of the RA components is on-going.

Waterwalk CMP construction activities:

Point Ruston completed construction of the RA components of the Waterwalk CMP, but for the remaining 116 ft. on the western end of the project next to the Metro Parks Peninsula property. This area will be completed in conjunction with the work associated with the Peninsula Park CMP. O&M activities have been ongoing, and Point Ruston has implemented final punch work associated with City of Tacoma requirements for the Waterwalk.

Temporary Impervious Cap and Construction Storm Water Management Plan construction activities:

The TIC has been completed, but the Lot 14 area, which will be completed as part of the Peninsula Park CMP work (with the trench spoils from this work being placed below the Lot 14 TIC), and O&M of the TIC is on-going.

Peninsula Park CMP

Point Ruston continues to cap the peninsula, which is scheduled for completion by early July.

Site-wide remediation/redevelopment activities:

- > Continued surface water controls
- Maintained onsite haul roads and stockpiles
- Maintained erosion and surface water controls; Inspected and repaired silt fence and exclusion zone fencing.
- > Continued site-wide dust monitoring and control through site and access road watering, as needed.
- Maintained air-monitoring program per CH&SP requirements
- Continued to maintain Ruston Way Construction Health and Safety protocols, including air monitoring, dust suppression, buffer zone maintenance, fencing and signage.

d) Actions scheduled for the next six weeks:

- Continue to work with DNR and EPA to ensure finalization of the Consent Decree between the agencies is accomplished in accordance with the terms of the Point Ruston/DNR settlement agreement.
- 2. Point Ruston to maintain the Ruston Way Health and Safety protocols, including applying tacifier to all buffer areas with exposed soils and continuing to monitor for dust.
- 3. Point Ruston to continue implementation of the Waterwalk occupancy controls as well as any required O&M.
- 4. Point Ruston to continue construction of the Peninsula Park CMP project, including construction of the final capping of the Peninsula as well as construction of the private storm water conveyance system and other related utilities associated with this project.
- 5. Finalizing RD approvals for the following plans and documents:
 - > Final Construction Report Waterwalk CMP

- > Final Construction Report for the MICMP
- Peninsula Park CMP
- > OMMP
- CH&SP v.6
- 6. Continue the O&M and inspections associated with the TIC and site wide stormwater facilities.
- 7. Continue CH&SP air monitoring during RA activities. Also, TSP sampling and analysis and correlating the data for eventual data-ram analysis during occupancy.
- 8. Continue to implement terms of the settlement with Metro Parks Tacoma and the State of Washington regarding the off-site remedial action required under the Consent Decree.

The following Remedial Action tasks are planned to continue:

Monitoring:

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring per the Air Monitoring Plan

OCF OMMP activities:

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

Stack Hill activities:

- a. Erosion controls and site maintenance; maintain roads and landscaping-including mowing- and complete the construction of the final Baltimore Street right of way improvements-including new curb, gutter, sidewalk, stormwater facilities and roadway improvements.
- b. Continue sales & marketing effort from sales office

Site-wide construction activities:

- a. Maintain roads and stockpiles onsite
- b. Maintain erosion controls
- c. Complete site wide grading and placement of onsite stockpiles and soils in advance of subgrade construction and compaction.
- d. Maintain erosion control BMPs and CH&SP standards

Phase 1 CMP

a. Complete vertical construction and implement all necessary O&M.

Waterwalk CMP

a. Maintain erosion control BMPs and CH&SP standards as well as conduct all necessary O&M inspections and maintenance.

Peninsula Park CMP

b. Continue to construct this project- including peninsula capping and associated improvements- as well as maintain all erosion control BMPs and CH&SP standards.

Temporary Impervious Cap and Construction Storm Water Management Plan

a. Complete any required punch work as well as completion of the Lot 14 area in conjunction with the Peninsula Park CMP work.

Sediment Cap RA Construction

a. Work with EPA to complete all required documentation related to its issuance of a Consent Decree in favor of DNR/State of Washington, for this cap.

e) Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.

- Completion of EPA negotiations on RA schedule modifications and associated matters related to the Consent Decree.
- The Town of Ruston continues to conduct its review of site specific permitting and land use processes in an untimely manner, as well as implemented many regulations that have affected Point Ruston's ability to implement many aspects of the on-site remedial action and delayed review and implementation of certain aspects of the Peninsula Park CMP project. EPA and Point Ruston continue to coordinate their response to this issue.

f) Modifications to work plans or schedules proposed to or approved by EPA.

- 1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
- 2. Point Ruston and EPA agreed to begin final negotiations of a Consent Decree amendment to include updates to the SOW Schedule. Discussions are ongoing. Point Ruston has entered into tolling agreements with the Department of Justice in order to facilitate negotiations over this extension and other related aspects of the Consent Decree.

- g) Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.
 - 1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans which incorporate remediation components for the site, including operation, maintenance, and monitoring issues at the site.
 - 2. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and Metro Parks to address operation, maintenance, and monitoring issues at the site, including the Waterwalk area which ultimately will be sold to the City of Tacoma and maintained under contact by Metro Parks Tacoma.

WEEKLY

SITE

INSPECTION

REPORTS

Reference	Date	Description
GEN2013-0602	06/02 - 06/08	General Site Weekly Inspection Report
SH2013-0602	06/02 - 06/08	Stack Hill Weekly Inspection Report
STR2013-0602	06/02 - 06/08	Streets Weekly Inspection Report
TIC2013-0602	06/02 - 06/08	Temporary Impermeable Cap Weekly Inspection Report
WW2013-0602	06/02 - 06/08	Waterwalk Weekly Inspection Report
PEN2013-0602	06/02 - 06/08	Peninsula Weekly Inspection Report
GEN2013-0609	06/09 - 06/15	General Site Weekly Inspection Report
SH2013-0609	06/09 - 06/15	Stack Hill Weekly Inspection Report
STR2013-0609	06/09 – 06/15	Streets Weekly Inspection Report
TIC2013-0609	06/09 - 06/15	Temporary Impermeable Cap Weekly Inspection Report
WW2013-0609	06/09 - 06/15	Waterwalk Weekly Inspection Report
PEN2013-0609	06/09 - 06/15	Peninsula Weekly Inspection Report
GEN2013-0616	06/16 - 06/22	General Site Weekly Inspection Report
SH2013-0616	06/16 - 06/22	Stack Hill Weekly Inspection Report
STR2013-0616	06/16 - 06/22	Streets Weekly Inspection Report
TIC2013-0616	06/16 - 06/22	Temporary Impermeable Cap Weekly Inspection Report
WW2013-0616	06/16 - 06/22	Waterwalk Weekly Inspection Report
PEN2013-0616	06/16 - 06/22	Peninsula Weekly Inspection Report
GEN2013-0623	06/23 - 06/29	General Site Weekly Inspection Report
SH2013-0623	06/23 - 06/29	Stack Hill Weekly Inspection Report
STR2013-0623	06/23 - 06/29	Streets Weekly Inspection Report
TIC2013-0623	06/23 - 06/29	Temporary Impermeable Cap Weekly Inspection Report
WW2013-0623	06/23 - 06/29	Waterwalk Weekly Inspection Report
PEN2013-0623	06/23 - 06/29	Peninsula Weekly Inspection Report



GENERAL SITE

Weekly Site Inspection Report No. GEN 2013-66

Week of: 6/2 - 6/8 , 2013 Inspector: TIM RUSHER

INSPECTION AREA	CON	VERA NDIT	AL ION		ED AIR?	COMMENTS/OBSERVATIONS
Gates: Slag Peninsula	Good	Fair	Poor	Yes	No	(See "Streets" Report for additional gates)
52 nd Street 54 th Street (electric)	V				V	
Signage: Gates Perimeter Safety	Good	Fair	Poor	Yes	No	
Security: Locks Alarms Cameras	Good	Fair	Poor	Yes	No	
BMPs: Silt Fence Waddles	Good	Fair	Poor	Yes	No	
Nursery: Plants Sprinkler Weeds	Good	Fair	Poor	Yes	No	NOT WORKING BEGINNING WEENING
Stockpiles: Envirotac II Plastic Packed Grass	Good	Fair	Poor	Yes	No No	
Dust: Traffic areas Excavation area	Good	Fair	Poor	Yes	No	ACONDER ON WATERWALK CREATED DUST TEM
Fencing: Site Perimeter Zone Separation	Good	Fair	Poor	Yes	No	11 RENTAL PANELS TO BE REMANED SECTION OFFENCE ONBRIDMORE ISONLY TEMPTIFIE
CRZs: Area D (Other)	Good	Fair	Poor	Yes	No	
Haul Roads: Main Street Grand Ave. OCF road Metr.Pks-Peninsula	Good	Fair	Poor	Yes	No	

GENERAL SITE - Weekly Site Inspection Report No. GEN 2013- 6642 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes: & GATE ON MIDDLE OUTKALL CAME OFF HUGES (NEEDS REHUNG)
& SPEM & PULLWERD ON T.I.C. PERIMETERS.
GRAFFITI ON SIGNS + GING OUTEN STRUCTURE AT 49 M + RUSTON WAY ORDER PARTS TO INSTAU ELECTION GATE AT BM VION CORRIDOR + 28
* ORDER PARTS TO LUSTAL ELECTRIC GATE AT BAN VION CORRIDOR + 28

Air Monitoring:

IL MIO	muor	mg:										
Day of	Week	Hi-Vol QTY	Real Time	Personal QTY	Portable QTY							
Sun	2	5	4	Ø	Ø	Drey - No SITE ACTIVITY						
Mon	3	5	4	Ø	Ø	PENNSULA SOIL GO / STAGE HIM WORK ON BALTIMORE						
Tue	L	4	4	Ø	9	OCF-S. HIVOL HAD POWER OWNER ONLY 15 MIN RUNTING, SAMPLE VODELL						
Wed	5	5	4	Ø	Ø	PENINEULA LINER LOSTA LL EXENDATINAL MASTE SOLS ON YACHTCULERO.						
Thu	6	5	Ld	Ø		EXCAVATE + HAML SOILS FROM M.P. SOURCE AREA TO PEN. PLACE OVER LIJER						
Fri	7	5	4	Ø	Ø	REPAIR + CALIBRATE FOR 14 HI. VOL / GRADING ON PENINSULA						
Saţ	8		~			,						

WEATHER:

						Sum	mary o	of Weather Conditions
Day of	Week	TEMPERA LOW	TURE (F) HIGH	DIRECTION	IND (MPH) AVERAGE	GUST	RAIN (INCHES)	OTHER
Sun	2	54	79	W	l	13	Ø	50004
Mon	M	52	8 %	WSW	3	11	Ø	SUNNY
Tue	4	50	83	NE	2	6	Ø	SUNNY
Wed	57	54	85	W	2	5	Ø	SUNNY
Thu	6	54	86	WNW	2	9	Ø	SHUNY
Fri	7	54	77	SW	5	18	Ø	SUNNY
Sat	8	53	77	WSW	2	9	B	OVERCAST MATERIAL GEARINGS

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DICDECTOR.	DATE.	,	1/1	m/1	7	OIO
INSPECTOR:	DATE:		6/10	5//	3	SIG

SIGNED:

H&S OFFICER: DATE:

SIGNE



Neighbors Dust







Weekly Site Inspection Report No. SH 2013- \$6\$2

Week of: 6 / 2 - 6 / 8 , 2013 Inspector: The Rustier

Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CON	VERA	L ION	NE REP	ED AIR?	COMMENTS/OBSERVATIONS
Streets: Villard St.	Good	Fair	Poor	Yes	No	
Court St. Commercial St. Baltimore St. 49 th St.	~			/		CONSTRUCTION AT BRITIMORE CONSTRUCTION 11 AT YWAY STOP
Tract A (private) Lot #18 (private)	/	1		1		CONSTRUCTION RELATED TO BALTHORE
View Point: Parking Pad Gravel Path Display Boards	Good	Fair	Poor	Yes	No	WEEDS
Storm Drains Clean: Catch Basins	Good	Fair	Poor	Yes	No	
BMPs: Hydroseed (Other)	Good	Fair	Poor	Yes	No	7
Sidewalks: Damage Weeds	Good	Fair	Poor	Yes	No	
Signage: Perimeter "Advisory" No Trespass (Tunnel Hillside)	Good	Fair	Poor	Yes	No	
Dust: Excavation Areas	Good	Fair	Poor	Yes	No	
Fencing: 4' Site Perimeter 6' Temp. Panels	Good	Fair	Poor	Yes	No	
Street Lights: Condition	Good	Fair	Poor	Yes	No	
Site Markers: Lot Numbers Utilities Survey Stakes	Good	Fair V-	Poor	Yes	No	
Retaining Walls: Baltimore Lots 22/23/24	Good	Fair	Poor	Yes	No	

STACK HILL - Weekly Site Inspection Report No. SH 2013- 9692 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

LOT #15 HOME CONSTRUCTION CONTINUES.	
LOT #15 HOME CONSTRUCTION CONTINUES.	
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H&S OFFICER: DATE: 6/19/13



Weekly Site Inspection Report No. STR 2013- Ø6Ø2
Week of: 6 / 2 - 6 / 8 , 2013 Inspector: TIM RUSHER

INSPECTION AREA	CO	VERA VDIT	ION	NE REP.	AIR?	COMMENTS/OBSERVATIONS
Streets: Surface	Good	Fair	Poor	Yes	No	
Paint	~				1	
Splitter Islands	V,				6	(BAL MANGES
Barricades	/				1	TOWN OF BUSTON BARRICHDES HEED MAINT.
Signage:	Good	Fair	Poor	Yes	No	
Trespass	V				0	
Advisory	V			1		"GRAND NE"SION AT ROUNDABOUT NEEDS REPAIR
Traffic Marketing	V			V		SEVERAL BENT SIGN POSTS/REPLACE "KEEPPROL
					V	, ,
Street Lights:	Good	Fair	Poor	Yes	No	
Ruston Way 51 st Street	V				V	
Baltimore	V				V	
Yacht Club						
Junction Boxes	-		_		V	
Storm Drains:	Good	Fair	Poor	Yes	No	
Curb/Gutter	/					
CBs	~					
Filterras		1		1		SEVERAL LOGICLIBE PLANTS ARE DYING.
Sidewalks:	Good	Fair	Poor	Yes	No	/
Paint	V				1	
Crossings					200	
Bollards	V				V	
Landscaping:	Good	Fair	Poor	Yes	No	
Trees		V				NUMERONS DETO + DYING TREES
Plants	V				W	/
Sprinkler Bark/Mulch	V				V	
	Card	Ec!-	De	V	V N	
Roundabouts: Grand	Good	Fair	Poor	Yes	No	
Yacht Club				-		
Features:	Good	Fair	Poor	Yes	No	
Wall/Rail	3000	, adii	1 001	165	140	
Development Sign	V				V	

SIKELIS - Weekly Site Inspection Report No. STR 2013- 6662

Gates:	Good	Fair	Poor	Yes	No	
Cooling Pond – West	V				V	
Cooling Pond – North	1			_	/	
Lot #12	V	-,-	_		~	
Lot #10 – West	V		_		~	
Lot #10 – North	V				V	
BNSF – A	V				V	
OSW02	V				~	
Grand – East	V				V	
Grand – West	V				/	
Cascade	1				~	
Yacht Club - North	1		X		~	
Yacht Club - South	1				V	
The section of the se	The Other Control	1		kerywara sa yant		
Other:	Good	Fair	Poor	Yes	No	
Roundabouts	/	141,000			0	
Jersey Barriers	/				6	
Baltimore Bridge	1				~	CLOSED TO VEHICLES
					(01000000000000000000000000000000000000	
Misc. notes: A ALI	105	1 4 1 D	MLY	to G	cure ub	RANCE: BANANT PEEL FOUND IN
*						
			ř.			
			_			
						_
				The second second		
certify that this report is	s true,	accui	rate an	d com	plete, t	o the best of my knowledge and belief.
				,		
NSPECTOR: DATE:		6/	195/	3	S	SIGNED:
REVIEWED: DATE:		Ь	/105/	/3		SIGNED:
		1				



TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No. TIC 2013- Ø6 Ø 2

Week of: 6/2 - 6/8, 2013 Inspector: Tim Rusher

INSPECTION AREA	OVE	ERAL	CLE	EAN?	NE	ED AIR?	COMMENTS/OBSERVATIONS
Lot 1 Geomembrane (03/10/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good 1	Fair Poor	Yes	No	Yes	No V	BAGS DETRICHATING QUICKLY SCREENS CLEANED AS NOTOGO
Lot 3 Geomembrane (03/04/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good	Fair Poor	Yes	No	Yes	No	(BROWN SAUDISTICS FIRENCE APPRIL) ALL LOTS
Lot 4 Geomembrane (12/11/12) Sand Bag Cover Anchor Edge Berm Drainage Other	Good	Fair Poor	Yes	No	Yes	No	GREEN BAGS-GOOD / BROW BAGS-BAD
Lot 5 (02/11/13) / 6 (01/1713) Geomembrane Sand Bag Cover Anchor Edge Berm Drainage Other	Good	Fair Poor	Yes	No	Yes	No	SAUDBAGS NEED REPURCED
Lot 7 Geomembrane (01/03/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good	Fair Poor	Yes	No	Yes	No No	Some BAGS HEED REPLICED
Lot 9/11 Geomembrane (04/05/13) Sand Bag Cover Anchor Edge Berm Drainage Other	V	Fair Poor	Yes	No	Yes	No	AIR POCKETS UNDER POND FREA NEED REPURCED SOON
Lot 12 Geomembrane (04/23/13) Sand Bag Cover Anchor Edge Berm Drainage Other	V	Fair Poor	Yes	No	Yes	No	Br65 STMETNETS DETERORATE

TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2013-0602 Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OV	ERA IDIT		CLE	AN?		ED AIR?	COMMENTS/OBSERVATIONS
Lot 14	Good	Fair	Poor	Yes	No	Yes	No	
Geomembrane	-			The state of the s	The second secon		Commence	PENDING
Sand Bag Cover								NA
Anchor Edge Berm								AI/A
Drainage								TO SUMP IN SUAG
Other								70 300, 5 70
Lot 16	Good	Fair	Poor	Yes	No	Yes	No	ONLY PHETOF 16 15 T.I.C.'S
Geomembrane (04/16/13)	4			1			V	
Sand Bag Cover		/				/		
Anchor Edge Berm	V						1	
Drainage	V						1	ONTO T.I.C. 17 (UNDER ROAD)
Other								
Lot 17/18	Good	Fair	Poor	Yes	No	Yes	No	
Geomembrane (04/13/13)	/			1			1	GARSE POOR MOSTLY
Sand Bag Cover		/				V		BAGS ARE GOING FASTIN SUNNY WERE
Anchor Edge Berm	~	/					~)
Drainage	/						2	
Other								
MMZ (Lot 15)	Good	Fair	Poor	Yes	No	Yes	No	
Stock Piles	V						2	
Drainage	1						-	6
Other								

Misc. notes: 🔷	STARTER	SPEAGING WEED'S ALONG T. 1.	C. EDGES	(Paus da Broce
WEEDS)		,		
		<u> </u>		
	2	*		
	40.4	*		
	•		norther the second	

i certify that this report is	irue, accurate and compre	cie, to the best of my knowledge and benef.
INSPECTOR: DATE:	6/19/13	SIGNED:
REVIEWED: DATE:	6/18/13	SIGNED:





WATERWALK

Weekly Site Inspection Report No. WW 2013- @6 \$ 2

Week of: 6 12 - 6 18 , 2013 Inspector: Tim Rusher

Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

Paths: Good Fair Peor Ves No	INSPECTION AREA	COF	VERA NDIT	L ION	NE REP.	ED AIR?	COMMENTS/OBSERVATIONS
Signage:	Paths:	Good	Fair	Poor	Yes	No	
Signage:	~.	V			V.	,	DORKED ON CORRECTING SLOPE ISSUES
Perimeter/"No Access"	Gravel	1				V	
Perimeter/"No Access" Park Rules (Other)	Signage:	Good	Fair	Poor	Yes	No	
Park Rules (Other)	Perimeter/Trespass	V				V	
Cother	Perimeter/"No Access"	V				1	
Street Lights: Good Fair Poor Yes No	Park Rules	~				V	
Junction Boxes	(Other)						
Poles	Street Lights:	Good	Fair	Poor	Yes	No	
Bulbs Banners	Junction Boxes	V					
Banners	Poles	v				V	
Banners	Bulbs	V				2/	
Area Drains	Banners	V					
Area Drains		Good	Fair	Poor	Yes	No	
Clean Outs	A CONTROL OF THE PROPERTY OF T	1				/	
Octopus: Good Fair Poor Yes No Typical Brayal Trayal Tr						V	
Tile			Fair	Poor	Yes	No	TUNION BUCKLE TRACKS + SKIN MARK
Paint		V				V	TYPICTO STEVENT TRIBERING
Intersection #1: Good Fair Poor Yes No	Grout	V				~	
Intersection #1: Good Fair Poor Yes No	Paint	1/				V	
Tile Grout Paint V Grout V V Intersection #2: Good Fair Poor Yes No Tile Grout Paint V Intersection #3: Tile Grout Paint V Intersection #4: Good Fair Poor Yes No Yes No Tile Grout V Tile Tile Tile Tile Tile Tile Tile Til	Intersection #1:	Good	Fair	Poor	Yes	No	
Paint		V				V	
Intersection #2: Good Fair Poor Yes No	Grout	V				~	
Tile Grout Paint Intersection #3: Good Fair Poor Yes No Grout Paint Intersection #4: Grout Grout Tile Grout Tile Grout Tile Grout Tile Grout V V No V No CLEANEN + SEALED Grout V V No No No No No No No No	Paint	1				V	
Tile Grout Paint Intersection #3: Good Fair Poor Yes No Grout Paint Intersection #4: Grout Grout Tile Grout Tile Grout Tile Grout Tile Grout V V No V No CLEANEN + SEALED Grout V V No No No No No No No No	Intersection #2:	Good	Fair	Poor	Yes	No	
Grout	Anatomic and an experience of the second sec	1				V	
Paint V V Intersection #3: Good Fair Poor Yes No Tile V V V Grout V V V Paint V V V Intersection #4: Good Fair Poor Yes No Tile V V MAY NEW CLEANT + SEMED Grout V V MAY NEW CLEANT + SEMED		~				1	,
Intersection #3: Good Fair Poor Yes No		/				1/	
Tile Grout Paint Intersection #4: Good Fair Poor Yes No Tile Grout Tile Grout Tile Tile Tile Tile Tile Tile Tile Til		Good	Fair	Poor	Yes		
Grout Paint V Good Fair Poor Yes No Tile Grout V MAY NEED CLEANEN + SEM-ED Grout							
Paint Intersection #4: Good Fair Poor Yes No Tile Grout Tile						~	
Intersection #4: Good Fair Poor Yes No Tile Grout Grout Good Fair Poor Yes No MAY NEED CLEANEN + SEMLED		V				V	
Tile Grout MAY NEW CLEANEY + SEM_ED		Good	Fair	Poor	Yes	No	
Grout			-			/	MAY NEW CIENIEN LSEN EN
	1	/	4			/	THE HOLD COD WAR IN A DEVICED
TAHLE TO A CONTRACT OF THE ACT OF	Paint						NO PANT

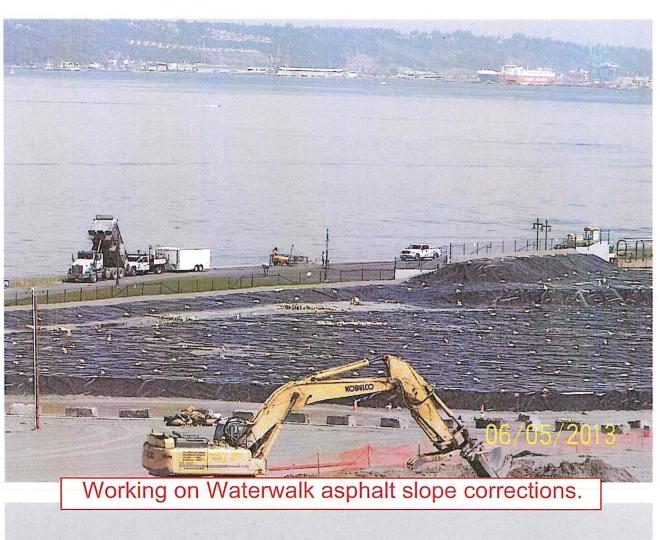
WATERWALK - Weekly Site Inspection Report No. WW 2013- ∅ 6 ∅ 2 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Sprinkler:	Good	Fair	Poor	Yes	No	SEVERAL SMALL SINK HOLES AT NWEND
Heads		~		6		1 BROKEN HEND NEAR INTERSECTION #2
Valve Boxes	is				1	
Landscaping:	Good	Fair	Poor	Yes	No	
Trees	V					
Plants	V			1		
Grass	V				V.	
Bark/Mulch	V				V	CONSIDER APPLYING FRESH BARK.
Hardware:	Good	Fair	Poor	Yes	No	/
Cleat Benches	V				\	
Tables	~				~	
Trash Cans	V				Sant.	CHECKED + EMPTIED AS MEEDED (MON-WED-TR
Gates:	Good	Fair	Poor	Yes	No	
Ferry - South	V,				/	
TIC - 3/4	/				-	
Intersection #1	V				/	
Intersection #2	V				/	
Intersection #3	V				/	
Grand Plaza	V				/	
Intersection #4	/				/	
Peninsula - North					/	
Grand Plaza:	Good	Fair	Poor	Yes	No	
Lights	V				V	
Concrete	V				1	
Rails	V			1		NEED PERMANAT FOR AT TON OF RMIS (ESTH)
Big Toy:	Good	Fair	Poor	Yes	No	
Block Wall	V				V	·
Sign	/				V	
Boardwalk/Benches	V				4	
Swings	/				/	,
Chips	/				V	
Other:	Good	Fair	Poor	Yes	No	
Coyotes		V		V		CONSIDER ADDING MORE
Tide Pool	V		·		V	

Misc. note	es (use continuation sheet if	necessary): 4 6/7/13	MOVED	END OF	= Public	Access
From	INTERSECTION #4	4 N. OUTFALL TO	WITHIN	116' OF	ENDOF	MA ROVENE UP
					•	

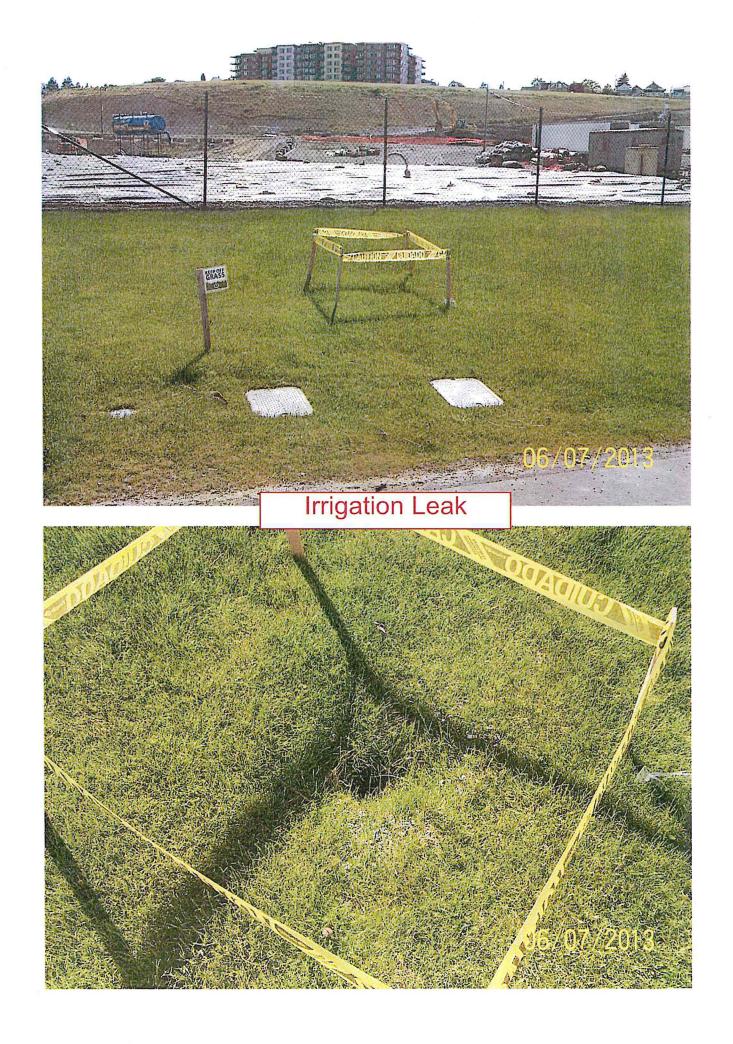
I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR:	DATE:	6/18	/13	SIGNED:	R
REVIEWED: 1	DATE:	6/19	13	SIGNED:	



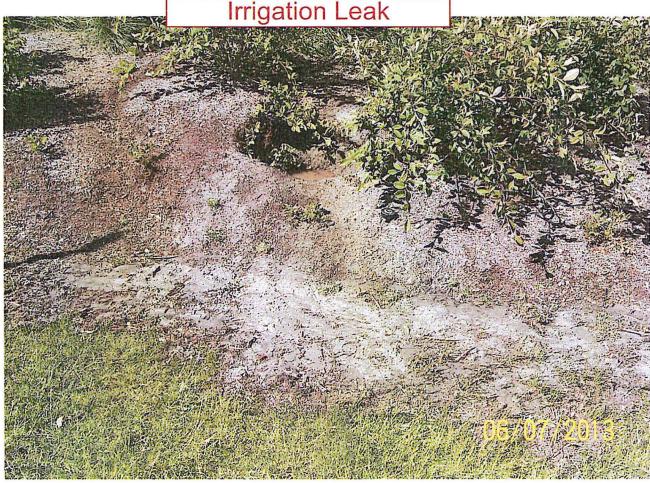














PENINSULA

Weekly Site Inspection Report No. PEN 2013- Ø6 Ø2

	(MM)	(DD)	(MM)	(DD)			-
Week of:	6	12	- 6	18	, 2013	Inspector: Tim	RUSHER

Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

Operable (unit	UZ -	Asa	rco	acor	na Smelter Site (Point Ruston)
INSPECTION AREA	COI	VERA NDIT	ION	REP	ED AIR? CK ONE)	COMMENTS/OBSERVATIONS
Fence: Perimeter Exclusion Zone Silt	Good	Fair	Poor	Yes	No V	,
Source Area: Drainage BMPs Equipment Metro Parks Materials	Good	Fair	Poor	Yes	No V	
Haul Road: Road Base Gravel Cover Drainage Metro Parks Materials	Good	Fair	Poor	Yes	No V	
Peninsula Liner: Geomembrane Soil Cover Marker Fabric Soil Cap Drainage	Good	Fair	Poor	Yes	No	SEE NOTES BELOW
Other Features: Shoreline Armoring Habitat Basin City Outfall Hydro Seed	Good	Fair	Poor	Yes	No	

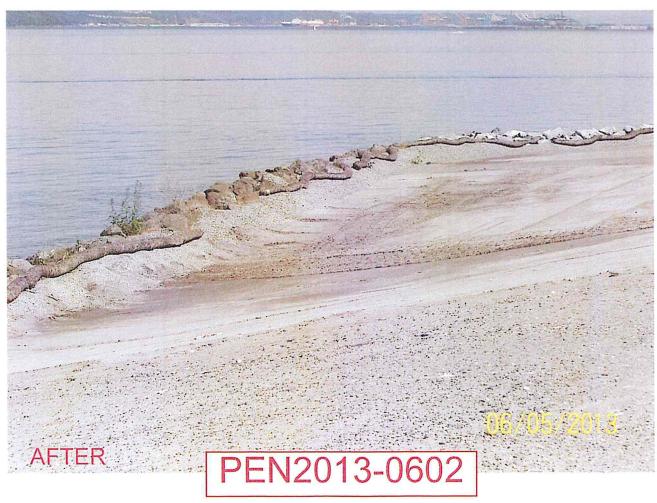
Misc. notes: & SEDIMENT BUILD UP + FROSION RICLS NEAR HABITAT BASIN	
ARE GENED UP + REPARED.	

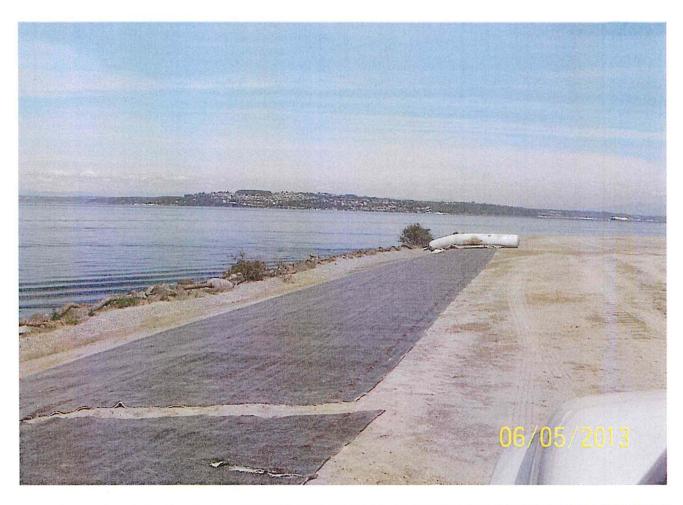
I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

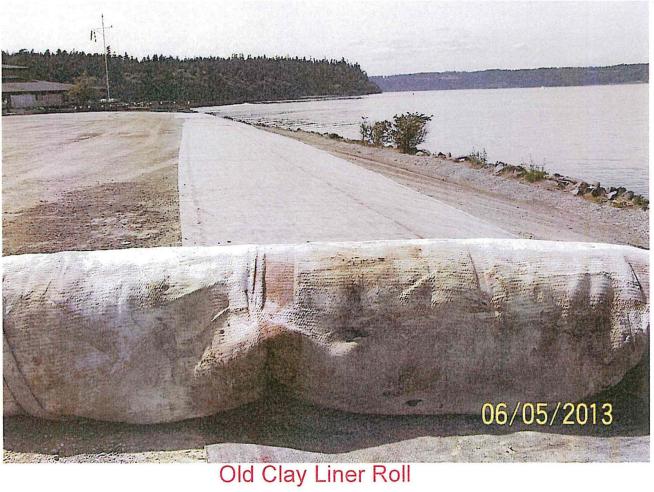
INSPECTOR:	DATE:	6/10/	13	SIGNED:
		1		

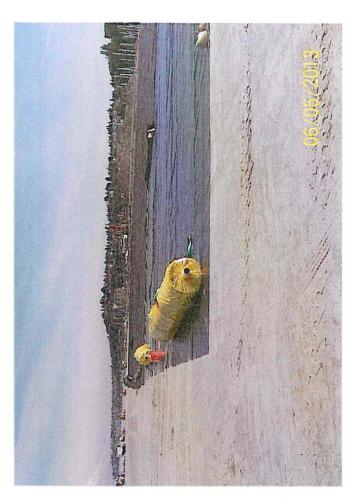
H&S OFFICER: DATE: 6/(9/13) SIGNE



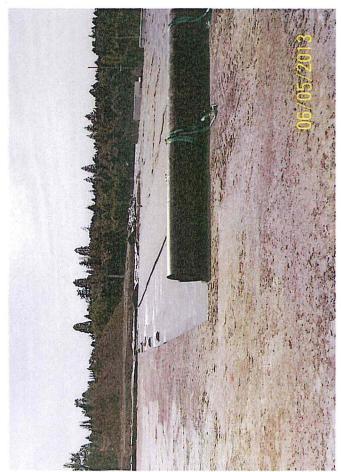


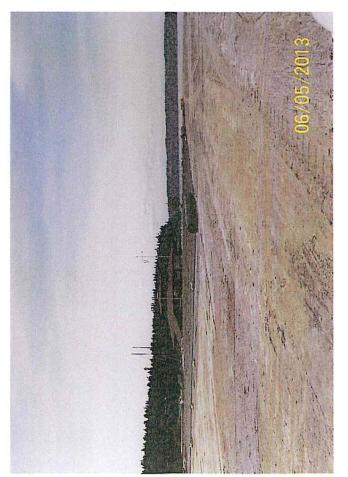


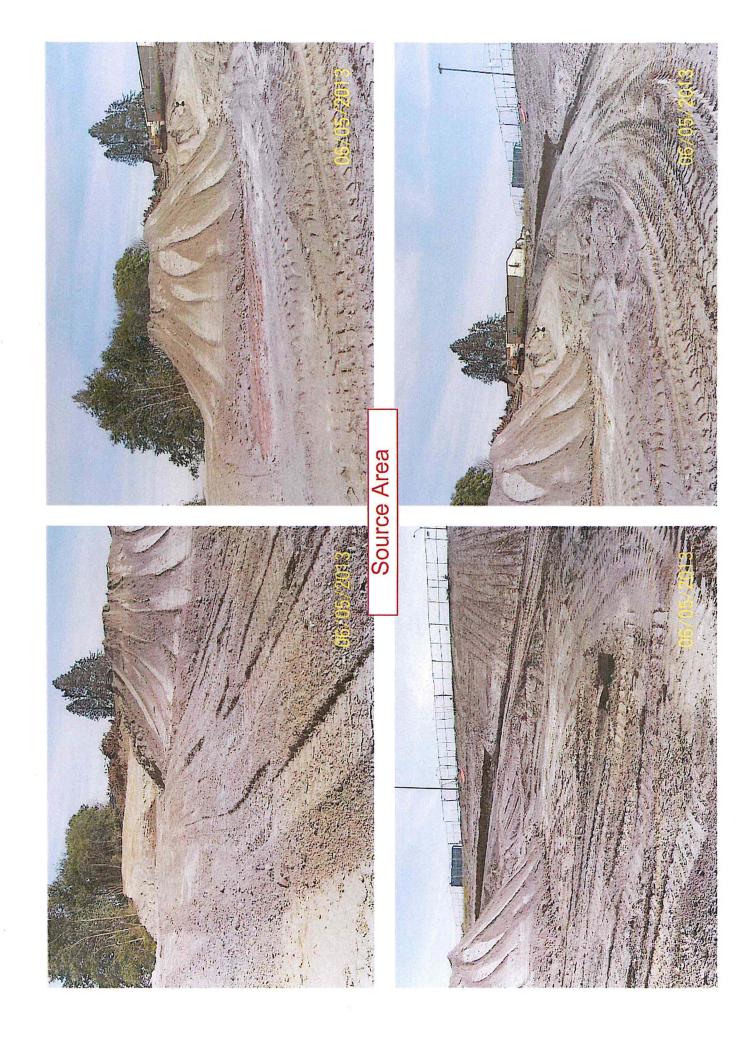


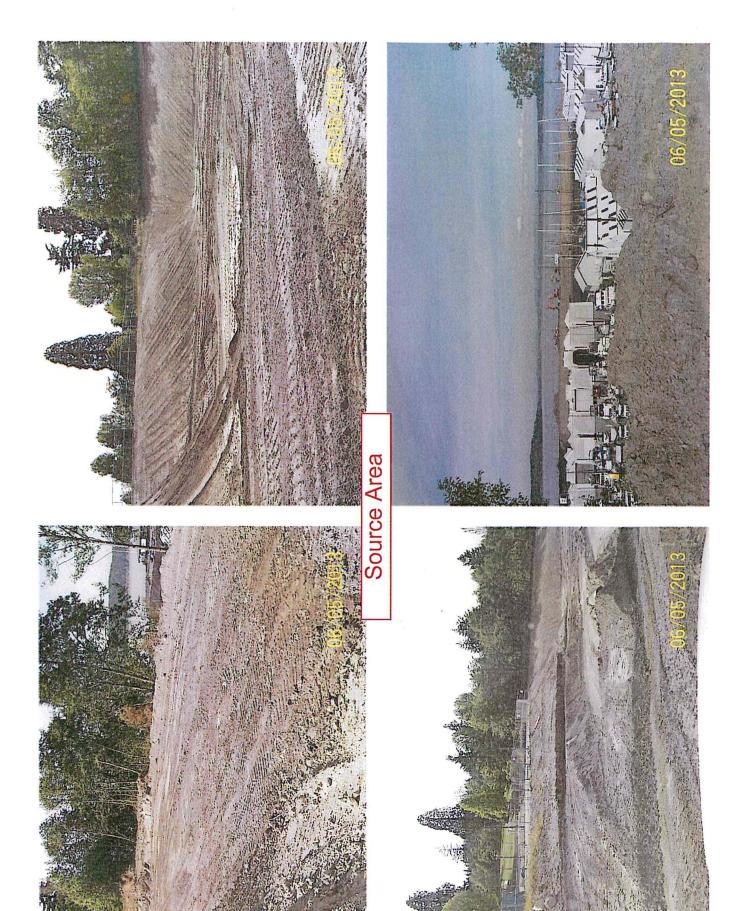














GENERAL SITE

Weekly Site Inspection Report No. GEN 2013- Ø609
6/15, 2013 Inspector: Tim Rusher

Week of:

Operable (Unit	UZ –	Asa	rco I	acor	na Smelter Site (Point Ruston)
INSPECTION AREA	CON	VERA NDIT	ION	NE REP.	AIR?	COMMENTS/OBSERVATIONS
Gates: Slag Peninsula 52 nd Street 54 th Street (electric)	Good	Fair	Poor	Yes	No V	(See "Streets" Report for additional gates)
Signage: Gates Perimeter Safety	Good	Fair	Poor	Yes	No V	
Security: Locks Alarms Cameras	Good	Fair	Poor	Yes	No V	
BMPs: Silt Fence Waddles	Good	Fair	Poor	Yes	No V	
Nursery: Plants Sprinkler Weeds	Good	Fair	Poor	Yes	No	NOT FUNCTION IN GO SEASONAL WEEDING IN PROGRESS
Stockpiles: Envirotac II Plastic Packed Grass	Good	Fair	Poor	Yes	No V	
Dust: Traffic areas Excavation area	Good	Fair	Poor	Yes	No V	WATER Spray As NEEDED
Fencing: Site Perimeter Zone Separation	Good	Fair	Poor	Yes	No	11 RENTIL PANELS RETURNED/EXTRASREMOVEN
CRZs: Area D (Other)	Good	Fair	Poor	Yes	No	
Haul Roads: Main Street Grand Ave. OCF road Metr.Pks-Peninsula	Good	Fair	Poor	Yes	No V	CLOSED INDEFN PTERY

GENERAL SITE - Weekly Site Inspection Report No. GEN 2013- ⊘ 6 ⊘ 9 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes: N. OUTFALL SAMPLER REDUCTION NOTICED. CLEANED GRAVE-PARTICLE
FROM SUCTIONS TUBING.
REVIEWED SITE ACCESS PROTOCOL W/APARTMENT STAFF AFTER SIGN /NOTHING
AFRINDTEN TO PLACE SION IN T.I.C. AREA.
71 -

Air Monitoring:

Day of Week		Hi-Vol QTY	Real Time	Personal QTY	Portable QTY	Air Monitoring Notes		
Sun	9	5	4	Ø	05	No ACTIVITY		
Mon	10	5	4	Ø	Ø	GRADING CLEANFILL ON PENINGULA ON YACHT CLUB POELDAD		
Tue	11	15	7	Ø	Ø	EXCAUATE HAML SOILS FROM M.P. SOURCE AREATO PEULSULA + GRO		
Wed	12	5	4	Ø	Ø	(SAME AS ABOVE)		
Thu	13	5	4	Ø	Ø	REDUCED MIJUTES METER ON IA HI-VOL		
Fri	14	5	4	Ø	106	REDLACE BRUSHES ON LOT 14 HI-VOL & CALIBRATE		
Sat	15	5	4	8	Ø	(SAMB AS ABOVE)		

WEATHER:

V LIZE I I I I I I I														
	Day of Week		Summary of Weather Conditions											
Day of			TURE (F)	WIND (MPH)			RAIN	OTHER						
_		LOW	HIGH	DIRECTION	AVERAGE	GUST	(INCHES)							
Sun	9	51	79	WNW	2	9	Ø	PARTLY CLOUDY						
Mon	10	5%	78	WSW	3	15	Ø	SUNNY						
Tue	11	49	74	SSW	5	17	Ø	50,44 y						
Wed	12	52	76	5W	4	17	Ø	SUNNY MACREMENTS WURDS + CLOUDS IN AFTERNOOM						
Thu	13	52	82	SW	3	18	,\$5	CLOUDY-WINDY / EVENING PAIN						
Fri	14	54	77	SSW	3	15	.\$5	MORNING RAIN /AFTERNOON GEARINGS						
Sat	15	57	67	55 W	3	11	.\$5	MORHINGRAN / MOSTEN CLOUDY						

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR:	DATE:	6/1	7/1	7	SIGNED:
HADI ECTOR.	DAIL.	6/1	1//		SIGNED.

H&S OFFICER: DATE: 6/17/13 SIGNED:





Weekly Site Inspection Report No. SH 2013- Ø669

of: 6 19 - 6 15 , 2013 Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston) Week of: 6 /9

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)									
INSPECTION AREA	CON	VERA NDIT	ION		ED AIR?	COMMENTS/OBSERVATIONS			
Streets:	Good	Fair	Poor	Yes	No				
Villard St.	1				V				
Court St.	V				1				
Commercial St.	•	/		V		SIDEWALK CONSTANCTION IN PROGRESS			
Baltimore St.		-/		1		11			
49 th St.		/		1		11			
Tract A (private)	1			V	1				
Lot #18 (private)		/		1	_	17			
View Point:	Good	Fair	Poor	Yes	No	.,			
Parking Pad		M							
Gravel Path					/	MOWED + TRIMMEN			
Display Boards	/				1	MORES V TRIMMED			
Storm Drains Clean:	Good	Fair	Poor	Yes	No				
Catch Basins	2000	, an	7 001	100	110				
BMPs:	Good	Fair	Poor	Yes	No				
Hydroseed	1				0				
(Other)									
Sidewalks:	Good	Fair	Poor	Yes	No				
Damage	/				1				
Weeds		1		/		NOON TO SORM WEEDS IN JOINTS			
Signage:	Good	Fair	Poor	Yes	No	House to the second to the sec			
Perimeter "Advisory"	8/				V				
No Trespass (Tunnel Hillside)	Carrier and Carrie	-				REMOVED YTEMP FENCE LONG AGO			
Dust:	Good	Fair	Poor	Yes	No	COMMUNICATING REGULARLY WITH AREA CONTENTOR			
Excavation Areas	/				/	ABOUT DUST REDUCTION.			
Fencing:	Good	Fair	Poor	Yes	No	HROUT SUST REDUCTION.			
4' Site Perimeter	-/		1 00.	700	V				
6' Temp. Panels	V				· ·	REMOVED LONG AGO			
Street Lights:	Good	Fair	Poor	Yes	No	Nemove B Wag has			
Condition	/			7.00	1				
Site Markers:	Good	Fair	Poor	Yes	No				
Lot Numbers	1				2				
Utilities			/	V		MANY WATER + SOMER MARKERS ARE DOWN			
Survey Stakes		V			V	A CONTRACT OF THE PROPERTY IN THE PROPERTY OF			
Retaining Walls:	Good	Fair	Poor	Yes	No				
Baltimore	V				V				
Lots 22/23/24	1				1				

STACK HILL - Weekly Site Inspection Report No. SH 2013- Ø6 Ø9 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Miss notes: 42		1	
Misc. notes: \$ B ALD MOK	SE DIRECT	IMPROVEMENTS AR	E ONGOING.
\$ LOT 15 HOME BUIL	DING IN PRO	GRESS.	
a gr			
,		*	
5			
•		V.	
	•		

INSPECTOR:

DATE

6/17/13

SIGNED:

H&S OFFICER: DATE:

6/17/13

SIGNED:



Progress









Weekly Site Inspection Report No. STR 2013- Ø 6 Ø 9

Week of: 6 19 - 6 15, 2013 Inspector: TIM RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CO	VERA VDIT	ION	NE REPA	AIR?	COMMENTS/OBSERVATIONS
Streets: Surface Paint Splitter Islands Barricades	Good	Fair	Poor	Yes	No V	
Signage: Trespass Advisory Traffic Marketing	Good	Fair	Poor	Yes	No	1-DAMAGED POST / 3-DAMAGED SIGNS
Street Lights: Ruston Way 51 st Street Baltimore Yacht Club Junction Boxes	Good	Fair	Poor	Yes	No V	
Storm Drains: Curb/Gutter CBs Filterras	Good	Fair	Poor	Yes	No	SOME PLANTS DYING
Sidewalks: Paint Crossings Bollards	Good	Fair	Poor	Yes	No	Come (CAN) Pyrocy
Landscaping: Trees Plants Sprinkler Bark/Mulch	Good	Fair	Poor	Yes	No	APPROX 30 ARE DEMO OR PVING NEED WEEDED SOME DRIPLINES ARE EXPOSED CONSIDER ADDITIONAL BARK IN THIN AREAS
Roundabouts: Grand Yacht Club	Good	Fair	Poor	Yes	No	
Features: Wall/Rail Development Sign	Good	Fair	Poor	Yes	No	

STREETS - Weekly Site Inspection Report No.

STR 2013- 8689

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Gates:	Good	Fair	Poor	Yes	No	
Cooling Pond – West	V				V	
Cooling Pond – North	1				V	
Lot #12	V				1	
Lot #10 – West	/				/	
Lot #10 – North	/				/	
BNSF – A	/				1	
OSW02	/				/	
Grand – East	/					
Grand – West	1				/	Ng
Cascade	1		-		V	
Yacht Club – North	/			1	1	
Yacht Club – South	1		¥:		1	
	THE REAL PROPERTY.	7 PM 1 WARREST 190	AND SHAPE OF	La Soutage of the		
Other:	Good	Fair	Poor	Yes	No	
Roundabouts	-/				/	
Jersey Barriers	-				1./	
Baltimore Bridge	V/				1	CLOSED TO VEHICLES
Bulling Bridge	V				-	CLOSED 10 NEMICLES
Misc. notes: \$ Sw A3 NEEDED. F PLANTERS & SI	SICK DEM	Up	Liv.	Tek	, + D	AROUND GRAND AND ROUTER, FUTUREAS,
				1	1 .	4 - 1 - 1 - 1 - 1 - 1 - 1 - 2
certify that this report i	s true,	accui	rate an	id com	iplete, 1	to the best of my knowledge and belief.
NSPECTOR: DATE:		6/	17/1	3		SIGNED:
REVIEWED: DATE:		6/1	7/	13		SIGNED:



TEMPORARY IMPERMEABLE CAP

Weekly Site Ins	spection	Report No.	TIC 2013-	8699
(MM) (DD)	(MM) (DD)			

Week of: 6 /9 - 6 / 5 , 2013 Inspector: TIM RUSHER

Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA		ERA	AL.		EAN?	NE REP.	ED	COMMENTS/OBSERVATIONS
Lot 1 Geomembrane (03/10/13)	Good	Fair	Poor	Yes	No	Yes	No	
Sand Bag Cover Anchor Edge Berm Drainage			V			V	-	ALL BAGS NEED REPLACED
Other	Good	•				·	A.	
Lot 3 Geomembrane (03/04/13) Sand Bag Cover	Good	Fair	Poor	Yes	No	Yes	No	Mast Rain Alma Raine
Anchor Edge Berm Drainage	V	,	V				V	MOST BASS NEED Reputad
Other Lot 4	Good	Fair	Poor	Yes	No	Yes	No	
Geomembrane (12/11/12) Sand Bag Cover	V		_			~		SOME BAGO NOBO RODLALOD
Anchor Edge Berm Drainage Other	~				-		1	
Lot 5 (02/11/13) / 6 (01/1713) Geomembrane	Good	Fair	Poor	Yes	No	Yes	No	
Sand Bag Cover Anchor Edge Berm Drainage	/		V			2	1	Au Bres News Repurcos
Other Lot 7	Good	Fair	Poor	Yes	No	Yes	No	
Geomembrane (01/03/13) Sand Bag Cover	~			8		-	8	FEW BAGS NEED REPUTCED
Anchor Edge Berm Drainage Other	/						/	, , ,
Lot 9/11 Geomembrane (04/05/13)	Good	Fair	Poor	Yes	No	Yes	No	
Sand Bag Cover Anchor Edge Berm Drainage	/		/			1		ALL Bras News Replaces
Other	8/						8	
Lot 12 Geomembrane (04/23/13) Sand Bag Cover	Good	Fair	Poor	Yes	No	Yes	No	A 9
Anchor Edge Berm Drainage			V			~		An Bags Need Repution
Other								

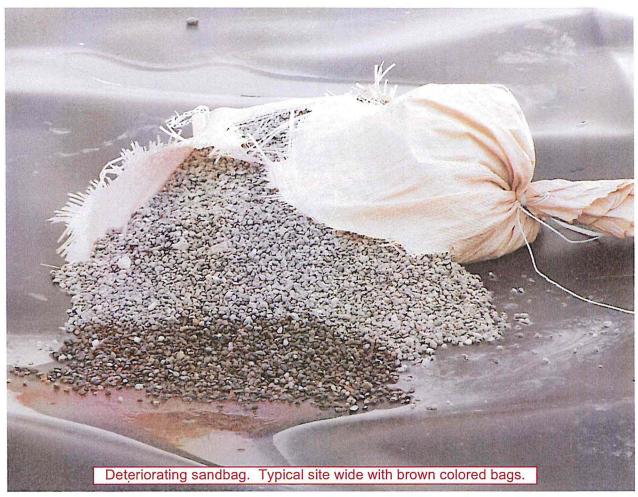
TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2013- Ø6Ø9 Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

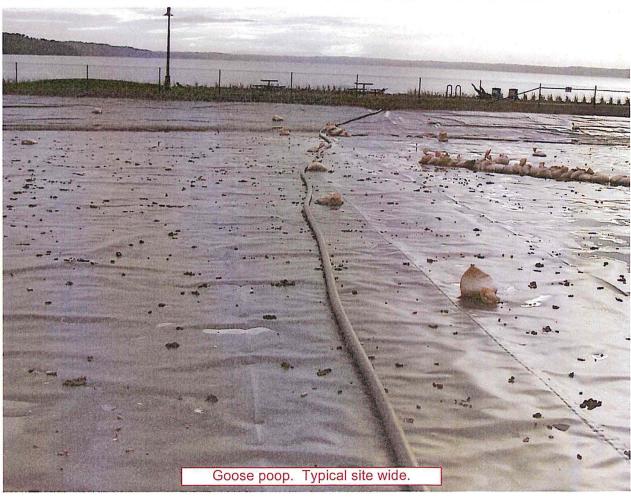
INSPECTION AREA	OV CON	ERA		CLE	AN?	NE REP		COMMENTS/OBSERVATIONS
Lot 14	Good	Fair	Poor	Yes	No	Yes	No	
Geomembrane								N/A WASTE SOILS
Sand Bag Cover Anchor Edge Berm	_			\vdash				N/A
Drainage	1				_		1	NIA AREA DRAINSUMB
Other								REER DIEM NOOM B
Lot 16	Good	Fair	Poor	Yes	No	Yes	No	PARAMEY GUERED
Geomembrane (04/16/13)	/			V			8	
Sand Bag Cover			1			V		ALL BAGS NEED REPURED
Anchor Edge Berm	V							•
Drainage	V						book	DRMNS TO LOT 17
Other				.,			.,	
Lot 17/18	Good	Fair	Poor	Yes	No	Yes	No	
Geomembrane (04/13/13)	V			V			1	A LOT OF GOOSE POOP ALL BAGS NEED REPLACED
Sand Bag Cover			0			8		ALL BAGS NEED KEPLALED
Anchor Edge Berm Drainage	V				-		4	•
Other	1			-			1	
	Good	Fair	Poor	Yes	No	Yes	No	
MMZ (Lot 15) Stock Piles	Good	rair	Poor	res	INO	res	INO	
Drainage	_			-	-		-	
Other	1			_	-		1	

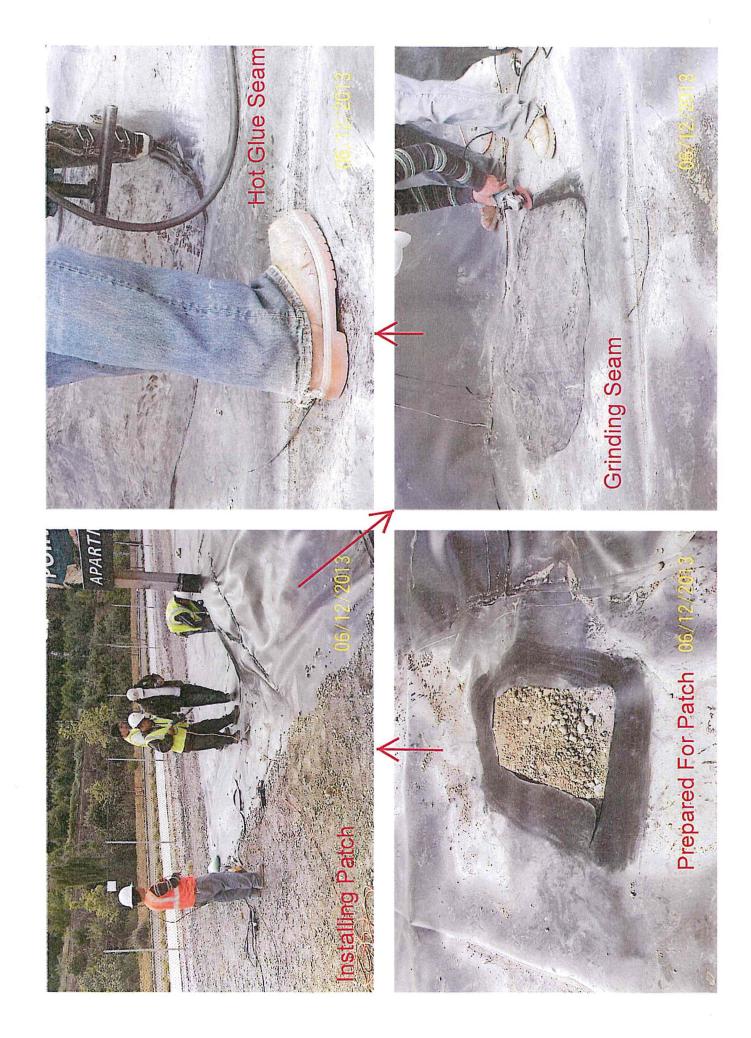
Misc. notes:				
	-			
	*	Ý		
		•	8	
		,		

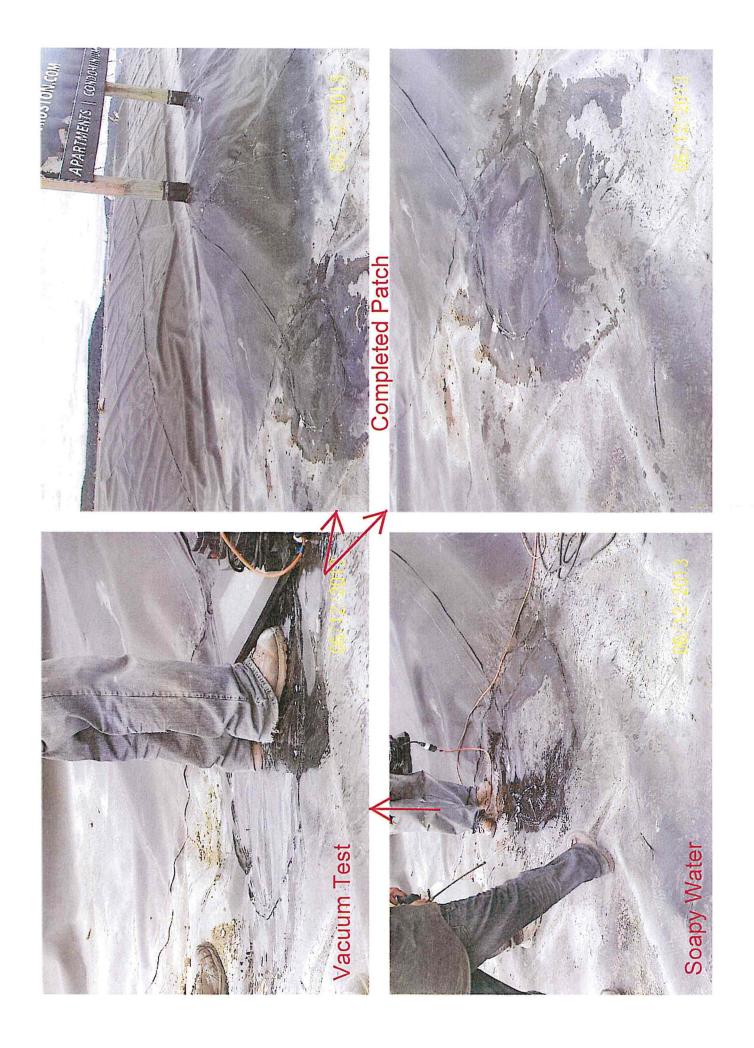
INSPECTOR: DATE:	6/17/13 SIGNED:	
REVIEWED: DATE:	6/17/13 SIGNED:	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.











WATERWALK

Weekly Site Inspection Report No. WW 2013- Ø6 Ø 9

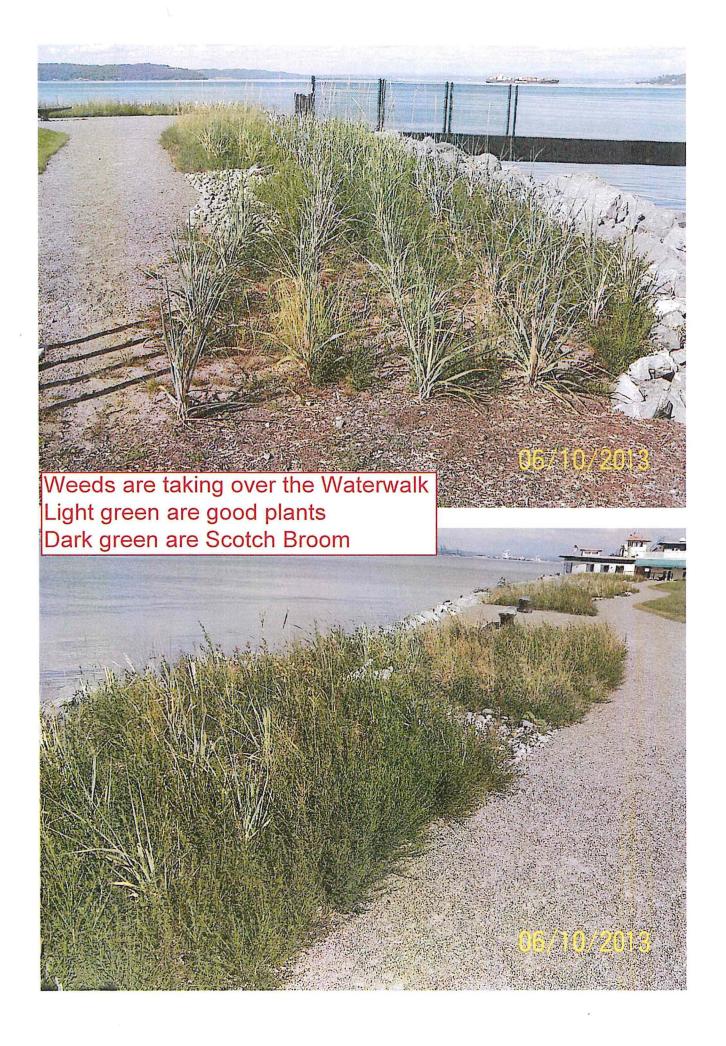
Week of: 6 19 - 6 15, 2013 Inspector: TIM Rusher Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

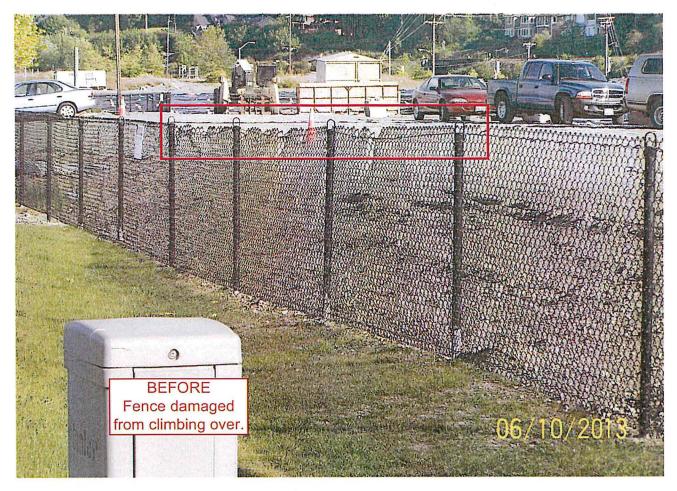
INSPECTION AREA	CON	VERA VDIT	L ION	NE REP.	ED AIR?	COMMENTS/OBSERVATIONS
Paths:	Good	Fair	Poor	Yes	No	
Asphalt		V		V		SLOPE REPARS IN PROGRESS
Gravel	-				V	
Signage:	Good	Fair	Poor	Yes	No	
Perimeter/Trespass	V				1	
Perimeter/"No Access"	1				1	
Park Rules	-				1	
(Other)						
Street Lights:	Good	Fair	Poor	Yes	No	
Junction Boxes	V				1	
Poles	V				•	
Bulbs	1				¥ /	
Banners	V		-		1	
Storm Drains:	Good	Fair	Poor	Yes	No	
Area Drains	V				1	
Clean Outs	V					
Octopus:	Good	Fair	Poor	Yes	No	
Grout	V				V	
Paint	1				-	
Intersection #1:	Good	Fair	Poor	Yes	No	
Tile	0000	ran	7001	165	140	
Grout	~				~	
Paint	-				is	
Intersection #2:	Good	Fair	Poor	Yes	No	
Tile	V				V	
Grout	1	_			-	
Paint	/				/	
Intersection #3:	Good	Fair	Poor	Yes	No	
Tile	/				/	
Grout	1				/	
Paint					1	
Intersection #4:	Good	Fair	Poor	Yes	No	
Tile	-	V			/	May Heen Sealed
Grout	1				-	1
-Paint			-			N/A

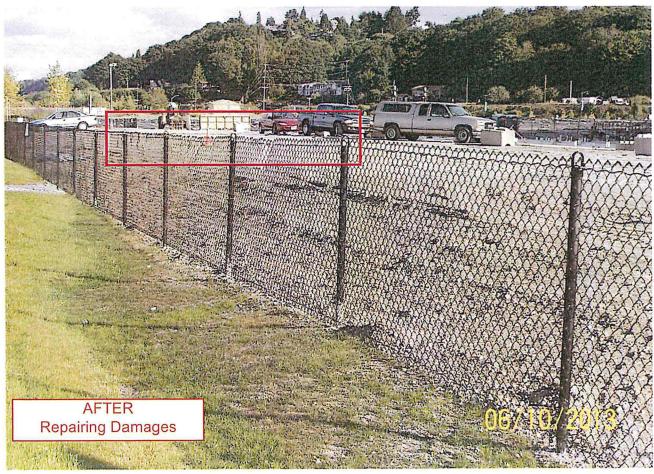
WATERWALK - Weekly Site Inspection Report No. WW 2013- Ø6 Ø 9 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Sprinkler:	Good	Fair	Poor	Yes	No	
Heads	1/					HEAD OR PIDE JOHN NOODS REPAIRED AT INT.
Valve Boxes	-					THE STATE OF THE CONTROL OF THE CONT
Landscaping:	Good	Fair	Poor	Yes	No	ALL PLANTER AREAS NEED WEEDED
Trees	/				1	
Plants	V					
Grass	/				~	HEN SCORTCHED AREAS FROM SLOPE REDARD EQUIT.
Bark/Mulch	/			1		NOSO NOW LAYER (FOR ADDEARANCES ONLY)
Hardware:	Good	Fair	Poor	Yes	No	3
Cleat Benches	V				V	
Tables	V				.1	
Trash Cans	·					SEVERAL NEED LINERS/EMPTION AS NEEDED
Gates:	·Good	Fair	Poor	Yes	No	, ,
Ferry - South	V				V	,
TIC - 3/4	V				V	
Intersection #1	. ✓				·V	
Intersection #2	1				1	
Intersection #3						NA
Grand Plaza	"/				/	
Intersection #4	1				V	
Peninsula - North	1				1	
Grand Plaza:	Good	Fair	Poor	Yes	No	
Lights	1				V	
Concrete	'				1	
Rails	1			1	,	SIDE RAILS NEED FILLER ATTOP
Big Toy:	Good	Fair	Poor	Yes	No	
Block Wall	V				8,	4
Sign	1				V,	
Boardwalk/Benches	/				1	
Swings	V				1	
Chips	b	-			/	
Other:	Good	Fair	Poor	Yes	No	
Coyotes	1				/	
Tide Pool					~	
Misc. notes (use continu	ation sh	eet if r	iecessa	ry):		
	,				•	
		-				

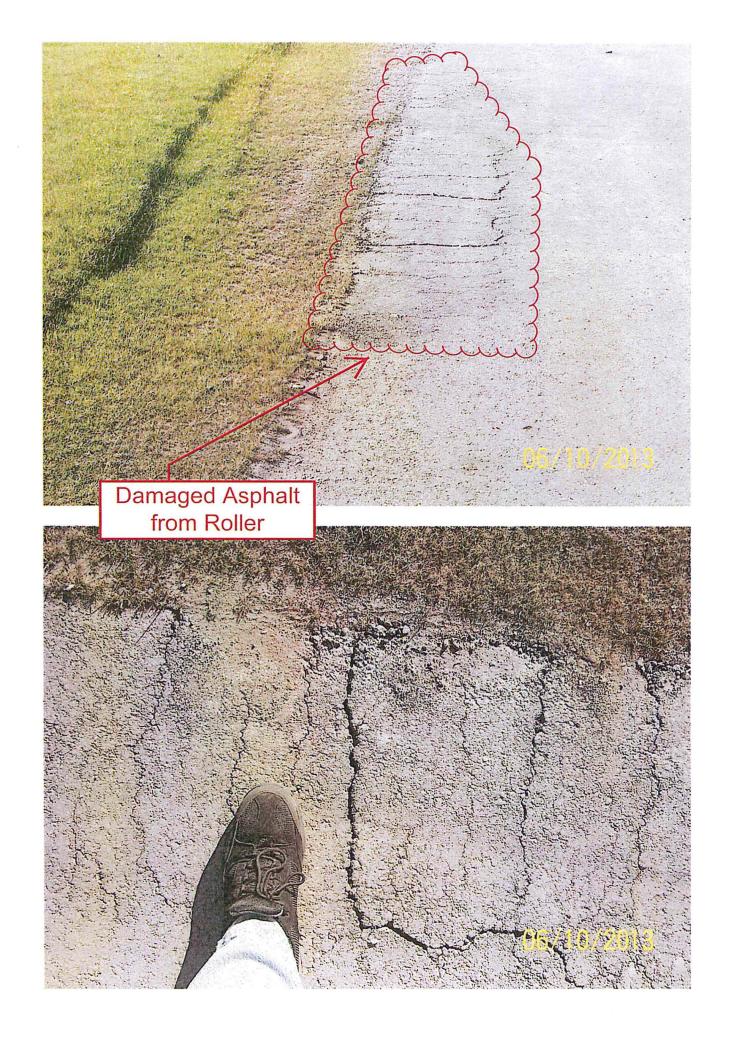
I certify that this report is true,	accurate and complete, to the best of my knowledge and	l belief.
INSPECTOR: DATE:	6/17/13 SIGNED:	
REVIEWED: DATE:	6/17/3 SIGNED:	
EODA WATERWALK WOR	2/15/12	













PENINSULA

Weekly Site Inspection Report No. PEN 2013- %6 & 9

	(MM)	(DD)		(MM)	(DD)			
Week of:	6	9	-	6	115	, 2013	Inspector: Time	RUSHER

Operable		UZ -	ASa		acoi	ma Smelter Site (Point Ruston)
INSPECTION AREA	OVERAL CONDITION (\(CHECK ONE)		NEED REPAIR?		COMMENTS/OBSERVATIONS	
Fence: Perimeter Exclusion Zone Silt	Good	Fair	Poor	Yes	No	MOSTLY IN SOURCE AREA ALONG HAVERONS
Source Area: Drainage BMPs Equipment Metro Parks Materials	Good V	Fair	Poor	Yes	No /	SOME STANDING WATER IN BOTTOM
Haul Road: Road Base Gravel Cover Drainage Metro Parks Materials	Good	Fair	Poor	Yes	No V	
Peninsula Liner: Geomembrane Soil Cover Marker Fabric Soil Cap Drainage	Good	Fair	Poor	Yes	No V	LINER & SOIL CAP INSTAULIS ONGOING
Other Features: Shoreline Armoring Habitat Basin City Outfall Hydro Seed	Good	Fair	Poor	Yes	No V	MGRE PENDING

Misc. notes:	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR:	DATE:	61	17	/13	SIGNE
			1		

H&S OFFICER: DATE:



GENERAL SITE

Weekly Site Inspection Report No. GEN 2013- Ø6 16

Week of: 6 / 16 - 6 / 22 , 2013 Inspector: Tim Rustier

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CON	VERA NDIT	ION	NEED REPAIR? (* CHECK ONE)		COMMENTS/OBSERVATIONS
Gates: Slag Peninsula 52 nd Street 54 th Street (electric)	Good	Fair	Poor	Yes	No	(See "Streets" Report for additional gates) No More 546
Signage: Gates Perimeter Safety	Good	Fair	Poor	Yes	No %	
Security: Locks Alarms Cameras	Good	Fair	Poor	Yes	No No	(SEE HOTES)
BMPs: Silt Fence Waddles	Good	Fair	Poor	Yes	No	
Nursery: Plants Sprinkler Weeds	Good	Fair	Poor	Yes	No	NOT WORKING SEASONAL MAINTENANCE WPROGRESS
Stockpiles: Envirotac II Plastic Packed Grass	Good	Fair	Poor	Yes	No V	
Dust: Traffic areas Excavation area	Good	Fair	Poor	Yes	No	REVIEW DUST REDUCTION WHYDROSEDDERS
Fencing: Site Perimeter Zone Separation	Good	Fair	Poor	Yes	No %	EDUND TEMPTENCE ACROSS YAMIT GUB OPEN
CRZs: Area D (Other)	Good	Fair	Poor	Yes	No	
Haul Roads: Main Street Grand Ave. OCF road Metr.Pks-Peninsula	Good	Fair	Poor	Yes	No /	HAML ROMOS REGRANDON IN ROUGH ARES

GENERAL SITE - Weekly Site Inspection Report No. GEN 2013- 6/6 Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes: TEST OF SANOBAG REPLACEMENT ON LOT#16.
REBAG ABOUT 50 BROKENBAGS W 2.5 HRS (1 WORKER)
* TEST OF SAND BAG REDLACEMENT ON LOT 9A. REBAG ABOUT
50 BROKEN BAGS (SWEEDING UPLOUSE SAND + GANDE)
4 SITE Specific ORIENTATION + HASP REVIEW WITH RUSTON FURE DEDT.
* CALLED POLICE RE: 3- SKATERS THAT JUMPED FENCE FROM RUSTON WIN
ONTO YAGHT CLUB. THEY REPUSED TO LEAVE UNTIL CALL WAS MADE.
NOXIOUS WEEDS FOUND IN COUNTY POND AREA (POISON HEMLOCK)
* NEXT MORNING YACHT CLUB TEMP TENCE WAS FOUND ODEN AT 5:00 AM (SAT)

Air Monitoring:

rir Mo	nitor	ing:				•
Day of	Week	Hi-Vol QTY	Real Time	Personal QTY	Portable QTY	Air Monitoring Notes
Sun	16	5	4	Ø	Ø	No AcTUITY
Mon	17	5	1	Ø	Ø	TYDICAL HAMLINGS OIL FROM M. P. SOURCE AREA TO PENJASHIA
Tue	18	5	4	Ø	·B	(SAME AS ABOVE) / BALTIMORE STREET IMPROVEMENTS
Wed	19	15	4	Ø	Ø	() / UALDAD LINER DELIVERY! HYDROSEEDING NW END PENINSULA.
Thu	20	5	4	Ø	Ø	(11)/STACK HILT IS STORN BYPASS WORK.
Fri	21	5	٤	Ø	95	
Sat	22	5	4	Ø	Ø	(11) UNTIL 5:30 DM

WEATHER:

						Sum	mary o	of Weather Conditions
Day of	Week	TEMPERA LOW	TURE (F) HIGH	DIRECTION	IND (MPH)			OTHER ,
Sun	16	53	78	SW	4	12	.\$5	MORHIJG RAIN / YSOME CLEMENSS / WINDY
Mon	17	56	87	WSW	3	21		MORNING RAN PARTLY GOUDY
Tue	18	53	81	WSW	3	15	.\$5	MORUIJG RAIN SUNNY CLONDS
Wed	19	54	75	SW	5	16	S	OVERCAST W/PARMAL CLEARINGS
Thu	20%	55	66	SW	6	24	.ø8	OVERCAST & WINDY AFTERNOON SHOWERS
Fri	21	54	82	SW	2	8	.Ø8	MORNING RAN / AFTERNOON SUNNY
Sat	22	50	86	NNW	2	5	8	SUNNY

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:	6/24/13	SIGNED:
H&S OFFICER: DATE: _	6/24/13	SIGNED:



Weekly Site Inspection Report No. SH 2013- Ø6/6

Week of: 06 100 - 06 109 , 2013 Inspector: Harry Shughter
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION (* CHECK ONE)		NE REP	ED	COMMENTS/OBSERVATIONS	
Streets: Villard St. Court St.	Good	Fair	Poor	Yes	No	See Notes
Commercial St. Baltimore St. 49 th St.		_		1	7	
Tract A (private) Lot #18 (private)		/		V	i	Material
View Point: Parking Pad Gravel Path Display Boards	Good	Fair	Poor	Yes	No	
Storm Drains Clean: Catch Basins	Good	Fair	Poor	Yes	No	
BMPs: Hydroseed (Other)	Good	Fair	Poor	Yes	No /	
Sidewalks: Damage Weeds	Good	Fair	Poor	Yes	No V	See Notes
Signage: Perimeter "Advisory" No Trespass (Tunnel Hillside)	Good	Fair	Poor	Yes	No V	/
Dust: Excavation Areas	Good	Fair	Poor	Yes	No	
Fencing: 4' Site Perimeter 6' Temp. Panels	Good	Fair	Poor	Yes	No V	N/A
Street Lights: Condition	Good	Fair	Poor	Yes	No	
Site Markers: Lot Numbers Utilities Survey Stakes	Good	Fair	Poor	Yes	No V	N/A
Retaining Walls: Baltimore Lots 22/23/24	Good	, Fair	Poor	Yes	No V	

STACK HILL - Weekly Site Inspection Report No. SH 2013- 6/6 Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:
LETS# / F 2 - GROSS Woods, Dobri
Lot # 29 Moterial New Side Walk From 49th & Buttimore to COMMERCIAL STREET Road Construction ON Bultimore from 4th ST. to the Rullismore
New Side Walk From 49th & Postimore to COMMERCIAL STREET
Road Construction ON Britismore for your 4 ST. to the Rationa
NPICO Q.
Open form work on Bathimore
· · · · · · · · · · · · · · · · · · ·
certify that this report is true, accurate and complete, to the best of my knowledge and belief.
NSPECTOR: DATE: 16-19-2013 SIGNED: Havy . Slong
H&S OFFICER: DATE: 6/21/13 SIGNED:

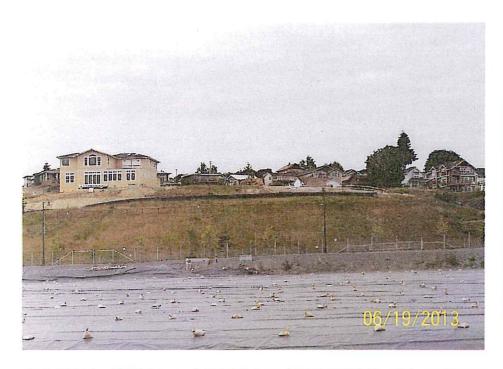








WSIR - SH2013-0616









WSIR - SH2013-0616





Weekly Site Inspection Report No. STR 2013- Ø6/6

Week of: 6 116 - 6 122, 2013 Inspector: The Rusher Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CO	OVERAL CONDITION (\(CHECK ONE)		CONDITION REPAIR?		AIR?	COMMENTS/OBSERVATIONS
Streets: Surface Paint Splitter Islands Barricades	Good	Fair	Poor	Yes	No /		
Signage: Trespass Advisory Traffic Marketing	Good	Fair	Poor	Yes	No	SEVERA SIGNS NEED REPARED	
Street Lights: Ruston Way 51 st Street Baltimore Yacht Club Junction Boxes	Good	Fair	Poor	Yes	No /		
Storm Drains: Curb/Gutter CBs Filterras	Good	Fair	Poor	Yes	No	SOME PLANTS DVING	
Sidewalks: Paint Crossings Bollards	Good	Fair	Poor	Yes	No		
Landscaping: Trees Plants Sprinkler Bark/Mulch	Good	Fair	Poor	Yes	No V	ABOUT 38 DEMO + DYING SOME HOSES EXPOSED NEED FREST+ BARK TO GUERTIM J SDOTS -	
Roundabouts: Grand Yacht Club	Good	Fair	Poor	Yes	No V		
Features: Wall/Rail Development Sign	Good	Fair	Poor	Yes	No V		

STREETS - Weekly Site Inspection Report No. STR 2013- 66/6
Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

Gates:	Good	Fair	Poor	Yes	No						
Cooling Pond – West	V				V						
Cooling Pond – North					V						
Lot #12	/				~						
Lot #10 – West	/										
Lot #10 – North	1				/	, , , , , , , , , , , , , , , , , , , ,					
BNSF – A	1				/						
OSW02											
Grand – East	1				1	,					
Grand – West					./						
Cascade	1				/						
Yacht Club – North	V				1/						
Yacht Club – South	V				1	FOUND ODENED WCLAMD REMOVED 6/22 5:00 AM					
Tacili Ciuo – South	L.				V						
		_				(TEMP TENCE)					
Other:	Good	Fair	Poor	Yes	No						
Roundabouts	V				1						
Jersey Barriers	V										
Baltimore Bridge	1				-						
100000000000000000000000000000000000000											
						,					
	s true,	accui	rate an			to the best of my knowledge and belief.					
NSPECTOR: DATE: 6/24/13 SIGNED: SIGNED											



TEMPORARY IMPERMEABLE CAP

•	We	ekly	Site	Inspe	ection	Report No.	TIC 2013-	Ø6	16
		(MM)	(DD)	(MM)	(DD)				
k o	f:	01	116	- A/.	101	2013	Inspector: \\	. 01	Mian

Week of: 06 1/6 - 06/21, 2013 Inspector: Many Shughter Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

Орставіс с			0 10			meiter Site (Point Ruston)		
INSPECTION AREA	OVERAL CONDITIO		CLEAN?		ED AIR?	COMMENTS/OBSERVATIONS		
Lot 1 Geomembrane (03/10/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair Po	voor Yes	No.	Yes	No V	(5) bags Need to be replaced		
Lot 3 Geomembrane (03/04/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Eair P.	Poor Yes	No	Yes	No .	5) hag Needs to be replaced		
Lot 4 Geomembrane (12/11/12) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair P	Poor Yes	No	Yes	No No	See Notes		
Lot 5 (02/11/13) / 6 (01/1713) Geomembrane Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair P	Poor Yes	No	Yes	No /	bays Nead to be replaced		
Lot 7 Geomembrane (01/03/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair P	Poor Yes	/No	Yes	No	Some (S) hours Nearl to be replaced		
Lot 9/11 Geomembrane (04/05/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair P	Poor Yes	No	Yes	No V	(5) boys Need to be replaced		
Lot 12 Geomembrane (04/23/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Eair P	Poor Yes	/ No	Yes	No J	Surplus Sandbogs		

TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2013- Ø5/5 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAI CONDITIO		CLEAN		ED AIR?	COMMENTS/OBSERVATIONS
Lot 14 Geomembrane Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair 1	Poor Y	Yes No	Yes	No C	Borrys Mean to be Replaced
Lot 16 Geomembrane (04/16/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair 1	Poor	Yes No	Yes	No No	Masterial, Fuel, Equipment
Lot 17/18 Geomembrane (04/13/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair	Poor	Yes No	Yes	No i	Slags Need to be teplaced
MMZ (Lot 15) Stock Piles Drainage Other Equipment	Good Fair	Poor	Yes No	Yes	No i	See Notes

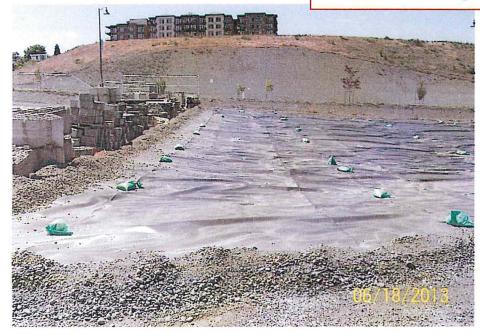
Misc. notes:
MM7 - Heavey Equipment, Mexerial, E.Z. Fencing Lot#4; 10% of Sand bags need to be replaced; hose from Ferry
hot 4; 10% of Sandhays nead to be reporced; hose trong terry

I certify that this report is	s true, accurate and complet	te, to the best of my knowledge and belief.
INSPECTOR: DATE:	06/21/2013	SIGNED: Jany J. Slave
REVIEWED: DATE:	6/24/13	SIGNED:





TIC 16 - Sand Bag Replacement Test Area









Weekly Site Inspection Report No. WW 2013- DO NO Week of: DO 110 - DO 122, 2013 Inspector: Jeo Rusher Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

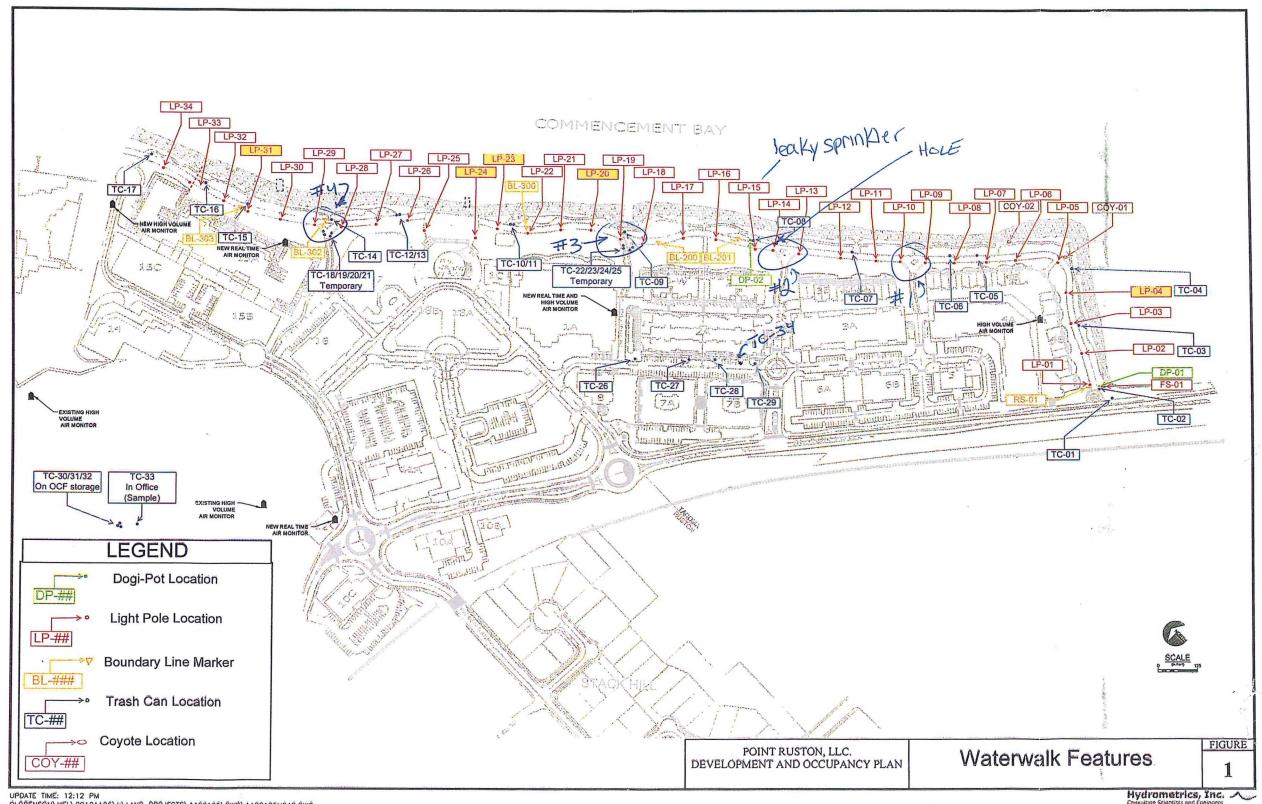
INSPECTION AREA	OVERAL CONDITION (* CHECK ONE)		NE REP.	ED AIR? CK ONE)	COMMENTS/OBSERVATIONS	
Paths:	Good	Fair	Poor	Yes	No	
Asphalt		X		×		
Gravel	X				X	
Signage:	Good	Fair	Poor	Yes	No	
Perimeter/Trespass	7				K	
Perimeter/"No Access"	77				X	
Park Rules	7				×	
(Other)					•	
Street Lights:	Good	Fair	Poor	Yes	No	
Junction Boxes	X				X	
Poles	X				X	
Bulbs						
Banners	X				Х	
Storm Drains:	Good	Fair	Poor	Yes	No	3
Area Drains	X				X	
Clean Outs	X				x	
Octopus:	Good	Fair	Poor	Yes	No	
Tile	X				X	
Grout	X				X	
Paint	1	×			X	1 / /2
Intersection #1:	Good	Fair	Poor	Yes	No	
Tile	X		4.		V	
Grout	X				K	
Paint		×			X	
Intersection #2:	Good	Fair	Poor	Yes	No	
Tile	X				X	
Grout	X				X	×
Paint		×			1/2	Holes in ASPHALT (FROM SLODE REDMR)
Intersection #3:	Good	Fair	Poor	Yes	No	
Tile		X		X		TIRE MARKS, THE Chip.
Grout	×	1			×	lord life and local sollies
Paint		X		X	We	NEEDS WASHED, PEALING
Intersection #4:	Good	Fair	Poor	Yes	No	
Tile	1				X	
Grout	8				×	
Paint	X				X	

WATERWALK - Weekly Site Inspection Report No. WW 2013- O(4) Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

Sprinkler:	Good	Fair	Poor	Yes	No	
Heads	5500	*	. 501	7	110	P. 1 10,15 Du = 10
Valve Boxes	1			/		By light Poie IS
	7				7	
Landscaping:	Good	Fair	Poor	Yes	No	
Trees	X				X	
Plants	X				×	
Grass		X			*	
Bark/Mulch	X			×	每	HOLE ACROSS FROM L.P 14 TOWARDS WATE
Hardware:	Good	Fair	Poor	Yes	No	/
Cleat Benches		X			×	
Tables	8				X	
Trash Cans	V				X	
Gates:	Good	Fair	Poor	Yes	No	
Ferry - South	7				X	7
TIC - 3/4	X				V	
Intersection #1	X					
Intersection #2	X				5	
Intersection #3	\Diamond				Ž.	
Grand Plaza					X	
Intersection #4	<u>х</u> Х				X	
Peninsula - North	X.				X	
Grand Plaza:	Good	Fair	Poor	Yes	No	
Lights	3/	ran	1001	163	X	
Concrete	→				3	1.114
Rails	X				X	
	X					
Big Toy:	Good	Fair	Poor	Yes	No	
Block Wall	X				X	
Sign	X				X	
Boardwalk/Benches	Ϋ́				X	
Swings	X				X	
Chips	X				X	
Other:	Good	Fair	Poor	Yes	No	
Coyotes	X				X	2 total
Tide Pool	X				X	
						· ·

Chipo				*************	1	
Other:	Good	Fair	Poor	Yes	No	
Coyotes	X				X	2 total
Tide Pool	X				X	
Misc. notes (use continu	ation sh	eet if ne	cessar	y):		
ertify that this report is tru	ue, accur	ate and	comple	te, to th	he best o	of my knowledge and belief.
SPECTOR: DATE:	6	21/2	2013	2	S	SIGNED:
			/			

REVIEWED: DATE:



UPDATE TIME: 12:12 PM GLORENSON\HEL\20121126\i:\LAND PROJECTS\1100105\DWG\1100105H042.DWG

WW2\$13-\$616



PENINSULA

		W	l eek	ly Sit	e Ins	spection Report No. PEN 2013- 96/6				
Week of: 6 //6		6 I	22	, 201	13	Inspector: TIM RUSHER				
				_		ma Smelter Site (Point Ruston)				
INSPECTION AREA	CO	VERA VDIT	ION	REP	ED AIR?	COMMENTS/OBSERVATIONS				
Fence: Perimeter Exclusion Zone Silt	Good	Fair	Poor	Yes	No V					
Source Area: Drainage BMPs Equipment Metro Parks Materials	Good	Fair	Poor	Yes	No V	POLISING WATER IN BOTTOM WORKING AROUND ITEMS (P.DES) IN EXC. AREA.				
Haul Road: Road Base Gravel Cover Drainage Metro Parks Materials	Good	Fair	Poor	Yes	No V	MISC. ITEMS ALONG HAVE ROAD ARE SECURE				
Peninsula Liner: Geomembrane Soil Cover Marker Fabric Soil Cap Drainage	Good	Fair	Poor	Yes	No V	LINER INSTALL + COVER CONTINUES				
Other Features: Shoreline Armoring Habitat Basin City Outfall Hydro Seed Misc. notes:	Other Features: Shoreline Armoring Habitat Basin City Outfall Hydro Seed Other Features: Good Fair Poor Yes No V V V V V V V V V V V V V									
I certify that this report i	certify that this report is true, accurate and complete, to the best of my knowledge and belief.									
INSPECTOR: DATE:		6,	1241	13		SIGNED:				
H&S OFFICER: DATE										



GENERAL SITE

Weekly Site Inspection Report No. GEN 2013- 0623

of: 6 /23 - 6 /29 , 2013 Inspector: Tim Rustice
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston) Week of: 6 /23

INSPECTION	OVERAL CONDITION		NE	ED	COMMENTS/OBSERVATIONS			
AREA			DITION REPAIR? (C CHECK ONE)		AIR?	COMMENTS/ODDERVATIONS		
Gates:	Good	Fair	Poor	Yes	No	(See "Streets" Report for additional gates)		
Slag Peninsula	~				1			
52 nd Street	6				B.			
54 th Street (electric)	~				1			
Signage:	Good	Fair	Poor	Yes	No			
Gates	V				-			
Perimeter					اسما			
Safety	•	201/201	100		-			
Security:	Good	Fair	Poor	. Yes	No			
Locks					1			
Alarms	2				100			
Cameras		V			-			
BMPs:	Good	Fair	Poor	Yes	No			
Silt Fence	/	•			V	REMOVED FROM OCF (OLD BENNETT PRESIDE ARE		
Waddles	V				~	ADDED ON STACK HILL (LOT 18)		
Nursery:	Good	Fair	Poor	Yes	No			
Plants	V				V			
Sprinkler			V	V		NEWSDIG PROGRAM ATEST SYSTEM		
Weeds	-				V	WEED MANAGEMENT ONGOING		
Stockpiles:	Good	Fair	Poor	Yes	No			
Envirotac II	~				V			
Plastic	~							
Packed Grass	6			ļ	~			
	V							
Dust:	Good	Fair	Póor	Yes	No			
Traffic areas		-			1			
Excavation area	V			-	i			
Fencing:	Good	Fair	Poor	Yes	No			
Site Perimeter	V				V			
Zone Separation	V				V			
CRZs:	Good	Fair	Poor	Yes	No			
Area D	V				V			
(Other)								
Haul Roads:	Good	Fair	Poor	Yes	No			
Main Street	/				V			
Grand Ave.	V				V			
OCF road	1							
Metr.Pks-Peninsula					-			

GENERAL SITE - Weekly Site Inspection Report No. GEN 2013- 623 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

	Misc	. note	s: 🔷 j	BEG	NI	len		H=-1	JOL	SCHEDULE: CHANGE FLTERS				
	Mo		. 1	ED -				-		4 FOR PRODER ODERANOW).				
7		^	OVE	- No			-	-		HENLOCK) FROM COUNG POND AREA.				
								6						
	1								11.20					
/	-													
1 3														
Mores	Air Monitoring:													
50° A	Day of Week Hi-Vol Real OTY Portable OTY Air Monitoring Notes													
No.	Sun	23	5	IJ	Ø	Ø	1a	1==	5.20	EGNDITIONS - NO ACTIVITY				
1. Fo 6 =		24	5	1	05	Ø				Alexandra de la companya de la compa				
1097		-		4						tenuity STAGE HU COLY / OCF HW HI-VOL				
	Tue	25	5	7	Ø	8	1			OCF TRAL + STOCKPILING INMMZ				
	Wed	26	5	4	Ø	Ø	(5	AME	As A	BOVE) WET SITE CONDITIONS				
A.M. F06 -> {	Thu	27	5	4	Ø	Ø	Ś	AME	ls AB	OVE) REMOVE WIRE BROKEDSHIT FENCE ON OCH				
104 >8	Fri	28	5	4	05	Ø	5	TE	NAMA	NTENANCE				
	Sat	29	5	4	Ø	Ø	N	OAC	nvi-	TY (HOLS RUNNING FRIDM AM. TO MON. A				
	VEAT	HER	:	*************			-							
	Day o	f Week	TEMPERA	ATURE (F)		WIND (MPH)	Sumi	nary o	of Weather Conditions				
	-		LOW	HIGH		ION AVE		GUST	(INCHES)					
	Sun	23	59	76	5	2	2	12	.37	MOSTLY GOLDY / RANAT NIGHT				
	Mon	24	57	77	5 W	/ 1	1_	18	.24	MORNING RAIN / MOSTLY CLOUBY				
	Tue	25	55	83	Sh		3	13	.38	MORNING GOIDS THEN PAIN				
	Wed	26	56	77	54	1	2	18	.15	OVERCAST SCATTERED SHOWORS				
AIDHIGHT	Thu	27	57	74	551	NI		6	.18	MORNING RAIJ, CLEARING FOG				
F09-	Fri	28	58	94	W	0	2	12	Ø	MORNING FOG/ MOSTLY SUNNY				
	Sat	29	61	92	WSI	JI		8	Ø	SUNNY				
]	certif	y that	this re	port is	true, a	ccurate	e and	d compl	ete, to	the best of my knowledge and belief.				
	INSP	ECTO	DR: D	ATE:		7/	1/	13	s	SIGNED:				
	H&S (OFFIC	CER: I	DATE:		7/1		13	s	SIGNED:				
						/	1			1710				



STACK HILL

Weekly Site Inspection Report No. SH 2013- Ø623

Week of: 6/23 - 6/29, 2013 Inspector: Time Rustier

Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CON	VERA	L ION	NE REP	ED	COMMENTS/OBSERVATIONS
Streets: Villard St.	Good	Fair	Poor	Yes	No	·
Court St.					V	
Commercial St. Baltimore St.		~		~		CONSTRUCTION IN PROGRESS
49 th St.		V		V		11
Tract A (private) Lot #18 (private)	~	/				
View Point:	Good	Fair	Poor	Yes	No	'1
Parking Pad		~			V	BENGUSEN AS CONSTRUCTION ENTRANCE
Gravel Path Display Boards	-				1	
Storm Drains Clean:	Good	Fair	Poor	Yes	No	
Catch Basins	V				V	
BMPs:	Good	Fair	Poor	Yes	No	
Hydroseed (Other)					-	
Sidewalks:	Good	Fair	Poor	Yes	No	
Damage		_			V	
Weeds	Cond	Fair	Desir	Vac	N	
Signage: Perimeter "Advisory"	Good	Fair	Poor	Yes	No	
No Trespass (Tunnel Hillside)						N7.4
Dust:	Good	Fair	Poor	Yes	No	
Excavation Areas	Good	Fair	Poor	Yes	No	
Fencing: 4' Site Perimeter	G000	raii	Poor	res	NO	
6' Temp. Panels						N/A
Street Lights:	Good	Fair	Poor	Yes	No	
Condition	Good	Fair	Poor	Yes	No	
Site Markers: Lot Numbers	0000	ı all	1 001	163	NO	
Utilities			V	V		
Survey Stakes	Cond	V Fair	Door	V	No	
Retaining Walls: Baltimore	Good	Fair	Poor	Yes	No	
Lots 22/23/24	V				V	

STACK HILL - Weekly Site Inspection Report No. SH 2013- Ø6 2.3 Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

Mis	sc. notes:
	BALTIMORE SIDEWALK + STREET IMPROVEMENTS ONGOING
	•
erti	fy that this report is true, accurate and complete, to the best of my knowledge and belief.
NSF	PECTOR: DATE: 7/1/13 SIGNED
I&S	S OFFICER: DATE: 7/1/3 SIGNED:



Weekly Site Inspection Report No. STR 2013- Ø 6 23

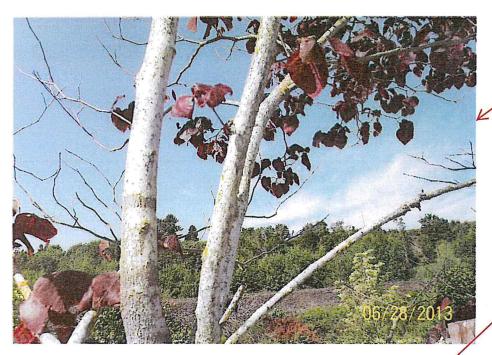
Week of: 06 123 - 06129, 2013 Inspector: Harry Slaughter Toperable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERA CONDIT	ION	REP.	ED AIR?	COMMENTS/OBSERVATIONS
Streets: Surface Paint Splitter Islands Barricades	Good Fair	Poor	Yes	No V	Gee Notes
Signage: Trespass Advisory Traffic Marketing	Good Fair	Poor	Yes	No \	
Street Lights: Ruston Way 51 st Street Baltimore Yacht Club Junction Boxes	Good Fair	Poor	Yes	No \	
Storm Drains: Curb/Gutter CBs Filterras	Good Fair	Poor	Yes	No	
Sidewalks: Paint Crossings Bollards	Good Fair	Poor	Yes	No /	
Landscaping: Trees Plants Sprinkler Bark/Mulch	Good Fair	Poor	Yes	No	See Notes
Roundabouts: Grand Yacht Club	Good Fair	Poor	Yes	No	
Features: Wall/Rail Development Sign	Good Fair	Poor	Yes	No V	

STREETS - Weekly Site Inspection Report No.

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Gates:	Good	Fair	Poor	Yes	No	
Cooling Pond – West	/				V	
Cooling Pond – North	/				1	~
Lot #12					V	
Lot #10 – West	V				1	
Lot #10 – North	V				V	
BNSF – A					V	
OSW02	V,				V	
Grand – East	V					
Grand – West					/	
Cascade						No gate e Cascarle
Yacht Club – North	1/				//	The space of the space
Yacht Club – South	1/		<u></u>		1	-
		Charles Charles			AND DESTRUCTION	
Other:	Good	Fair	Poor	Yes	No	Γ
Roundabouts	1/	,			1	
Jersey Barriers	1				1	
Baltimore Bridge	-				/	
	Duiti	relti	Chi	2 R	leede usto ton	N Way - (ABOUT 30 TOTAL)
certify that this report is	s true,	accui	ate an	d com	plete,	to the best of my knowledge and belief.
NSPECTOR: DATE:	06,	128	1/2	013	3	SIGNED: Hany & Slavolite
REVIEWED: DATE:	6	1/2	8/1	3		SIGNED:



Example of Dying Tree Along Ruston Way. Some Dead Branches and Remaining Leaves Turning.

Example of Dead Tree Along Ruston Way

Damaged A-Board Sign. Mentioned to Ruston Maintenance in passing.







TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No.	TIC 2013- Ø623
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Week of: 06 03 - 06 13 | Inspector: ματη Slaughter

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION	CLEANS	MEED	COMMENTS/OBSERVATIONS
Lot 1 Geomembrane (03/10/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair Poor	Yes No	Yes No	An Southags Moved to be Replaced
Lot 3 Geomembrane (03/04/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair Poor	Yes No	Yes No	Weeds on Clean hand Road Weeds on fence line
Lot 4 Geomembrane (12/11/12) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair Poor	Yes No	Yes No	5% of Syral hogs weat to be ~
Lot 5 (02/11/13) / 6 (01/1713) Geomembrane Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair Poor	Yes No	Yes No	- Sand longs Nead to be Replaced
Lot 7 Geomembrane (01/03/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair Poor	Yes No	Yes No	1% of Sand hage Need to be Replaced
Lot 9/11 Geomembrane (04/05/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair Poor	Yes No	Yes No	Sand books Need to be Replaced
Lot 12 Geomembrane (04/23/13) Sand Bag Cover Anchor Edge Berm Drainage Other	Good Fair Poor	Yes No	Yes No	

TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2013- ©6.23 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CON	ERA		CLE	AN?		ED AIR?	COMMENTS/OBSERVATIONS
Lot 14	Good	Fair	Poor	Yes	No	Yes	No	Surplus Sand havic
Geomembrane	V			6			1	
Sand Bag Cover	V			1		/		
Anchor Edge Berm	1.			/			0	
Drainage	/			/			/	
Other		_						
Lot 16	Good	Fair	Poor	Yes	No	Yes	No	Partial T.IC/ Terry gravel Coup
Geomembrane (04/16/13)	V	/		V			V	4 9
Sand Bag Cover	V			10	_	/		fuel & Equipment, Storage
Anchor Edge Berm	¥	V		V	1		V	Sound harrs Need to be Replaced
Drainage	/			1				4
Other								
Lot 17/18	Good	Fair	Poor	Yes	No	Yes	No	
Geomembrane (04/13/13)	1			V			. /	
Sand Bag Cover	V			V		/		
Anchor Edge Berm	V,			V			1/	
Drainage	V			V			1	
Other								
MMZ (Lot 15)	Good	Fair	Poor	Yes	No	Yes	No	
Stock Piles	V			V			V	
Drainage	V			V			/	
Other								

Misc. notes: \$ SAND BAG	REDUCEMENT SCHEDILED FOR WEEK OF
July 1,2013.	REPLYSEMENT SCHEDNLED FOR WEEK OF

INSPECTOR: DATE:

REVIEWED: DATE:









WATERWALK

Weekly Site Inspection Report No. WW 2013- 0623

Week of: 6 123 - 6 129 , 2013 Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CON	VERA NDIT	L ION	NE REP	ED AIR?	COMMENTS/OBSERVATIONS
Paths:	Good	Fair	Poor	Yes	No	
Asphalt		/		V		SLOPE ADJUSTMENT + REPARS ONGOING
Gravel	V				1	
Signage:	Good	Fair	Poor	Yes	No	
Perimeter/Trespass	V				~	
Perimeter/"No Access"	V				2	
Park Rules	~				· ·	
(Other)						
Street Lights:	Good	Fair	Poor	Yes	No	
Junction Boxes	1				~	
Poles	~				0	
Bulbs	~					
Banners	V				V	
Storm Drains:	Good	Fair	Poor	Yes	No	
Area Drains	1				~	
Clean Outs	0				~	\$2.50 million
Octopus:	Good	Fair	Poor	Yes	No	
Tile	V				V	
Grout	/				V	
Paint	V				V	
Intersection #1:	Good	Fair	Poor	Yes	No	
Tile	V				V	
Grout					V	
Paint	4				V	
Intersection #2:	Good	Fair	Poor	Yes	No	
Tile	V				2	
Grout	V				2	
Paint	V				V	
Intersection #3:	Good	Fair	Poor	Yes	No	
Tile	/				1	
Grout	V				V	
Paint					1	
Intersection #4:	Good	Fair	Poor	Yes	No	
Tile		6			?	CLEAUSTSEAL
Grout	/				9	750
-Paint						NA

WATERWALK - Weekly Site Inspection Report No. WW 2013- Ø 6 23 Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

Sprinkler:	Good	Fair	Poor	Yes	No	LEAKS AT N. END REPAIRED
Heads						ILEAK NOWE INTORSECTION #2
Valve Boxes						
Landscaping:	Good	Fair	Poor	Yes	No	WEEDING IN PROGRESS ANNEX
Trees	V				V	
Plants					~	
Grass	~				~	7
Bark/Mulch		/		/		SOME NOW BARK PUTCED/WEED MORE
Hardware:	Good	Fair	Poor	Yes	No	
Cleat Benches	V				~	
Tables	V				1	
Trash Cans	V				~	EMPTIED AS NEWDED
Gates:	Good	Fair	Poor	Yes	No	1
Ferry - South	V				i	*
TIC - 3/4	V				V	
Intersection #1	v				1	
Intersection #2	~				V	
Intersection #3-						NA
Grand Plaza	V				V	, , ,
Intersection #4	~				V	
Peninsula - North	1				V	
Grand Plaza:	Good	Fair	Poor	Yes	No	
Lights	V				V	
Concrete	~				V	
Rails		V		V		
Big Toy:	Good	Fair	Poor	Yes	No	
Block Wall	V				1	
Sign	V				/	
Boardwalk/Benches	1				~	
Swings	V				1	
Chips	/				1	
Other:	Good	Fair	Poor	Yes	No	
Coyotes	V				V	(2)
Tide Pool	~				V	
					- unique all control	

Boardwalk/Benches	V							
Swings	V			1			2000	
Chips	/		l l					
Other:	Good Fair	Poor	Yes	No				
Coyotes	V		1	V(2)				
Tide Pool	~		1					
Misc. notes (use continua	ition sheet if	necessar	y):					
,								
certify that this report is tru	e, accurate ar	nd comple	ete, to the	best of my kno	owledge and b	elief.		
INSPECTOR: DATE:	7/	1/1	3	SIGNED:	T			
REVIEWED: DATE:		1/1/1	3	SIGNE	D:			
FORM: WATERWALK-WSIR rev.	. 02/15/13			2				



PENINSULA

Weekly Site Inspection Report No. PEN 2013- 🗵 と 23

			THE RESERVE OF THE PARTY OF THE			Consider City (Paint Protein)	_
Week of:	(MM)	112 -	(MM)	110	2013	Inspector: TIM RUSHER	

Operable	Unit	02 –	Asa	rco 7	Гасог	ma Smelter Site (Point Ruston)
INSPECTION AREA	CO	VERA NDIT CHECK O	ION	REP	ED AIR? CK ONE)	COMMENTS/OBSERVATIONS
Fence: Perimeter Exclusion Zone Silt	Good V	Fair	Poor	Yes	No V	
Source Area: Drainage BMPs Equipment Metro Parks Materials	Good	Fair	Poor	Yes	No V	
Haul Road: Road Base Gravel Cover Drainage Metro Parks Materials	Good V	Fair	Poor	Yes	No.	
Peninsula Liner: Geomembrane Soil Cover Marker Fabric Soil Cap Drainage	Good	, Fair	Poor	Yes	No V	
Other Features: Shoreline Armoring Habitat Basin City Outfall Hydro Seed	Good V V V	Fair	Poor	Yes	No V V V V V	
Misc. notes:						·

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.	
INSPECTOR: DATE: 7/1/13 SIGNED:	
H&S OFFICER: DATE: 7/1/13 SIGNED:	

Monthly Report 205, June 2013 Operable Unit 02 Asarco Tacoma Smelter Site

OUTFALL

MONITORING

DATA

Date	Description
June 2013	Summary of June 2013 Outfall Data for As, Cu, and Zn
June 2013	Compared to SOW Limit
07/11/2012	Spectra Labs Project # 2013070027
07/11/2013	Outfall Analysis Report for May Samples
	Date June 2013 07/11/2013

Table 1. Summary of <u>June 2013</u> Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall**	0.000	0.00%	0.000	0.00%	0.000	0.00%
OSW2	0.031	6.20%	0.006	1.22%	0.002	0.34%
North Outfall	0.032	6.40%	0.013	2.64%	0.013	2.68%

^{* 0.5} ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.

^{**} NOTE: The South Outfall was abondoned on February 15, 2013.

2221 Ross Way Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com

07/11/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Tacoma Smelter (Outfall)

Date Received: 07/01/2013 Spectra Project: 2013070027

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
TSM0613410	1	Arsenic	0.023	mg/L	EPA 200.8	Water	06/10/2013
TSM0613410	1	Copper	0.0038	mg/L	EPA 200.8	Water	06/10/2013
TSM0613410	1	Zinc	0.0015	mg/L	EPA 200.8	Water	06/10/2013
TSM0613210	2	Arsenic	0.032	mg/L	EPA 200.8	Water	06/10/2013
TSM0613210	2	Copper	0.0069	mg/L	EPA 200.8	Water	06/10/2013
TSM0613210	2	Zinc	0.0024	mg/L	EPA 200.8	Water	06/10/2013
TSM0613417	3	Arsenic	0.049	mg/L	EPA 200.8	Water	06/17/2013
TSM0613417	3	Copper	0.028	mg/L	EPA 200.8	Water	06/17/2013
TSM0613417	3	Zinc	0.030	mg/L	EPA 200.8	Water	06/17/2013
TSM0613217	4	Arsenic	0.036	mg/L	EPA 200.8	Water	06/17/2013
TSM0613217	4	Copper	0.0058	mg/L	EPA 200.8	Water	06/17/2013
TSM0613217	4	Zinc	0.0016	mg/L	EPA 200.8	Water	06/17/2013
TSM0613424	5	Arsenic	0.028	mg/L	EPA 200.8	Water	06/24/2013
TSM0613424	5	Copper	0.0089	mg/L	EPA 200.8	Water	06/24/2013
TSM0613424	5	Zinc	0.011	mg/L	EPA 200.8	Water	06/24/2013
TSM0613224	6	Arsenic	0.030	mg/L	EPA 200.8	Water	06/24/2013
TSM0613224	6	Copper	0.0065	mg/L	EPA 200.8	Water	06/24/2013
TSM0613224	6	Zinc	0.0021	mg/L	EPA 200.8	Water	06/24/2013

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07/11/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Tacoma Smelter (Outfall)

Date Received:

07/01/2013 Spectra Project: 2013070027

Client ID	Spectra #	Analyte	Result	Units	Method	<u>Matrix</u>	Date Sampled
TSM0613401	7	Arsenic	0.028	mg/L	EPA 200.8	Water	07/01/2013
TSM0613401	7	Copper	0.012	mg/L	EPA 200.8	Water	07/01/2013
TSM0613401	7	Zinc	0.011	mg/L	EPA 200.8	Water	07/01/2013
TSM0613201	8	Arsenic	0.026	mg/L	EPA 200.8	Water	07/01/2013
	_	,		-		.,	
TSM0613201	8	Copper	0.0052	mg/L	EPA 200.8	Water	07/01/2013
TSM0613201	8	Zinc	0.0006	mg/L	EPA 200.8	Water	07/01/2013

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2221 Ross Way Tacoma, WA 98421 (253) 272-4850 Fax (253) 572-9838 www.spectra-lab.com

July 11, 2013

Point Ruston

5219 N. Shirley St.

Suite 100

Tacoma, WA 98407

Units:

ug/L

Spectra Project:

2013070027

Applies to Spectra #'s

1-8

QUALITY CONTROL RESULTS

ICP-MS Metals - EPA Method 200.8 - Water

Method Blank

Date Digested:

7/11/2013

Date Analyzed:

7/11/2013

Element	CAS#	Result
Arsenic	7440-38-2	< 0.5
Copper	7440-50-8	< 0.5
Zinc	7440-66-6	< 0.5

Blank Spike (LCS)

Date Digested:

7/11/2013

Date Analyzed:

7/11/2013

	Spike	LCS	LCS
Element	Added	Conc.	%Rec
Arsenic	100.0	103.50	103.5
Copper	100.0	103.30	103.3
Zinc	100.0	105.70	105.7

LCS Recovery limits 85-115%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested:

7/11/2013

Date Analyzed:

7/11/2013

Sample Spiked:

2013070027-1

	Sample	Spike	MS	MS	MSD	MSD	
Element	Conc.	Conc.	Conc.	%Rec	Conc	%Rec	RPD
Arsenic	23.25	100.0	127.30	104.1	131.20	108.0	3.7
Copper	3.77	100.0	84.03	80.3	85.77	82.0	2.1
Zinc	1.48	100.0	78.08	76.6	79.74	78.3	2.1

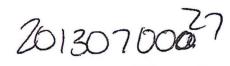
Recovery Limits 70-130%

RPD Limit 20

SPECTRA LABORATORIES

Steven G. Hibbs Laboratory Manager

CHAIN OF CUSTODY RECORD





PROJ. NO)			JEC ⁻	TNAME)	(D			. 7		- /	/	
TACOM	a Sme	Leve		V	outfall Pt Ruston LCC		VER.			A				
SAMPLER	S: (Signaty	re)		1			TAI	j	/ 4	X	/			/ /
25	Toth.	kle					- CONTAINERS		N		· . /			REMARKS
DATE	STA#	TIME	COMP	GRAB	SAMPLE NUMBER		NO. OF	1	Ž_					
6/10/13	outfall	9:15	K		TSM 0613410		1	X						
Wolp		9:26	d		75m0613210		1.	X						
6/17/12	Howlfall	9:25	K		TSM0613417		- 1	X		,				
6/17/13		9:30	x		TSM0613217		1	X						
6/24/11	Modfall	9:15	1		T5MO613424		1	X						
11. 11	USW2	9:20	1		TSM0613224		1	×						
7/1/13	Nouther!	9:10	1		TSM 0713401		_1	X						
7/1/13	05W-2	9:15	X		TSM 07/3201		1	×						
-														9.
				/										
					;									
													,	
Relinquish	ned (Signatu	(DL			Date/Time	Received by:	Signa	ature)			Sp	ecq	ku	Shipped via: FedEx, UPS or Other Air Bill #
	ned (Sighatu				Date/Time	Reseived by:					Rema	rks		
Relinquish	ied (Signatu	re)			Date/Time	Received for I	Labon	atory by	y: (Sign	eture)	De	ate/Tin	ne	Enclosed: Parameter List with DTLs Cover Letter
					-						Split S	-		land.
COC Form	- 7/12										I MCC	epted [Inecii	Signature Signature

PERIMETER

AIR

MONITORING

DATA

(HIGH VOLUME)

Reference	Date	Description
Spectra	06/03 - 06/09	Spectra Laboratories Project # 2013060192
Specifa	00/03 - 00/09	Analysis Reports for As-Pb: OCF NW / OCF S / Lot 1A / Lot 4B
Spectra	06/10 – 06/16	Spectra Laboratories Project # 2013060359
Specifa	00/10 - 00/10	Analysis Reports for As-Pb: OCF NW / OCF S / Lot 1A / Lot 4B / Lot 14
Spectra	06/17 – 06/23	Spectra Laboratories Project # 2013060555
Specifa	00/17 - 00/23	Analysis Report for As-Pb: OCF NW / OCF S (Off Site Trigger 0.2)
Spectra	06/17 – 06/23	Spectra Laboratories Project # 2013060576
Specifa	00/17 - 00/23	Analysis Reports for As-Pb: Lot 1A / Lot 4B / Lot 14 (On Site Trigger 0.02)
Spectra	06/24 – 06/30	Spectra Laboratories Project # 2013070029
Specifa	00/24 - 00/30	Analysis Report for As-Pb: OCF NW / OCF S (Off Site Trigger 0.2)
Spectra	06/24 – 06/30	Spectra Laboratories Project # 2013070030
Specifa	00/24 - 00/30	Analysis Reports for As-Pb: Lot 1A / Lot 4B / Lot 14 (On Site Trigger 0.02)

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R	EC	EIVED
	JUN	2 4 2013
D.	7.	

06/19/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

06/10/2013

Spectra Project:

2013060192

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
Chefit ID	Бресна н	Allaryte	Result	Omis	Wichiod	<u>Iviau ix</u>	Bampicu
8690815	1	Arsenic	0.0012	μg/m3	SW846 6020A	Filter	06/03/2013
8690815	1	Lead	0.0032	$\mu g/m3$	SW846 6020A	Filter	06/03/2013
8690814	. 2	Arsenic	0.00034	μg/m3	SW846 6020A	Filter	06/03/2013
8690814	2	Lead	0.00097	μg/m3	SW846 6020A	Filter	06/03/2013
8690813	3	Arsenic	0.00029	μg/m3	SW846 6020A	Filter	06/03/2013
8690813	3	Lead	0.00075	μg/m3	SW846 6020A	Filter	06/03/2013
8690812	4	Arsenic	0.00035	μg/m3	SW846 6020A	Filter	06/03/2013
8690812	4	Lead	0.0011	μg/m3	SW846 6020A	Filter	06/03/2013
0.40004.4	_		0.00000		G1110.4.C. C00.0.4		0.410.0.10.0.1.0
8690811	5	Arsenic	0.00039	μg/m3	SW846 6020A	Filter	06/03/2013
8690811	5	Lead	0.0017	μg/m3	SW846 6020A	Filter	06/03/2013
8690810	6	Arsenic	0.00053	μg/m3	SW846 6020A	Filter	06/04/2013
8690810	6	Lead	0.0019	μg/m3	SW846 6020A	Filter	06/04/2013
8690808	7	Arsenic	0.00043	μg/m3	SW846 6020A	Filter	06/04/2013
8690808	7	Lead	0.0010	μg/m3	SW846 6020A	Filter	06/04/2013
8690807	8	Arsenic	0.00051	μg/m3	SW846 6020A	Filter	06/04/2013
8690807	8	Lead	0.0021	μg/m3	SW846 6020A	Filter	06/04/2013

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 1 of 4

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06/19/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:
Spectra Project:

06/10/2013 2013060192

							Date
Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Sampled
8690806	9	Arsenic	0.00062	μg/m3	SW846 6020A	Filter	06/04/2013
8690806	9	Lead	0.0020	$\mu g/m3$	SW846 6020A	Filter	06/04/2013
8690804	10	Arsenic	0.00055	μg/m3	SW846 6020A	Filter	06/05/2013
8690804	10	Lead	0.0017	μg/m3	SW846 6020A	Filter	06/05/2013
8690803	11	Arsenic	0.00021	μg/m3	SW846 6020A	Filter	06/05/2013
8690803	11	Lead	0.00065	μg/m3	SW846 6020A	Filter	06/05/2013
0.00000	12	A	0.00066		SW846 6020A	Filter	06/05/2013
8690802	12	Arsenic	0.00066	μg/m3	SW 840 0020A	ritter	06/03/2013
8690802	12	Lead	0.0014	μg/m3	SW846 6020A	Filter	06/05/2013
8690801	13	Arsenic	0.00051	μg/m3	SW846 6020A	Filter	06/05/2013
8690801	13	Lead	0.0023	μg/m3	SW846 6020A	Filter	06/05/2013
8803999	14	Arsenic	0.00038	μg/m3	SW846 6020A	Filter	06/05/2013
8803999	14	Lead	0.0011	μg/m3	SW846 6020A	Filter	06/05/2013
8803998	15	Arsenic	0.00051	μg/m3	SW846 6020A	Filter	06/06/2013
8803998	15	Lead	0.0013	μg/m3	SW846 6020A	Filter	06/06/2013
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8803997	16	Arsenic	0.00017	μg/m3	SW846 6020A	Filter	06/06/2013
8803997	16	Lead	0.00068	μg/m3	SW846 6020A	Filter	06/06/2013

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06/19/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received: Spectra Project:

06/10/2013 2013060192

CII . YD	G		D14	** **	36-1-1		Date
Client ID	Spectra #	Analyte	Result	<u>Units</u>	Method	Matrix	Sampled
8803996	17	Arsenic	0.0025	$\mu g/m3$	SW846 6020A	Filter	06/06/2013
8803996	17	Lead	0.0037	μg/m3	SW846 6020A	Filter	06/06/2013
8803995	18	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	06/06/2013
8803995	18	Lead	0.0041	μg/m3	SW846 6020A	Filter	06/06/2013
8803994	19	Arsenic	0.0013	μg/m3	SW846 6020A	Filter	06/06/2013
8803994	19	Lead	0.0037	μg/m3	SW846 6020A	Filter	06/06/2013
8803993	20	Arsenic	0.0011	μg/m3	SW846 6020A	Filter	06/07/2013
8803993	20	Lead	0.0035	μg/m3	SW846 6020A	Filter	06/07/2013
8803992	21	Arsenic	0.00082	μg/m3	SW846 6020A	Filter	06/07/2013
8803992	21	Lead	0.0022	μg/m3	SW846 6020A	Filter	06/07/2013
8803991	22	Arsenic	0.0022	μg/m3	SW846 6020A	Filter	06/07/2013
8803991	22	Lead	0.0039	μg/m3	SW846 6020A	Filter	06/07/2013
8803990	23	Arsenic	0.0012	μg/m3	SW846 6020A	Filter	06/07/2013
8803990	23	Lead	0.0035	μg/m3	SW846 6020A	Filter	06/07/2013
8803989	24	Arsenic	0.0019	μg/m3	SW846 6020A	Filter	06/07/2013
8803989	24	Lead	0.0051	μg/m3	SW846 6020A	Filter	06/07/2013

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06/19/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

06/10/2013

Spectra Project:

2013060192

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8803978	25	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	06/10/2013
8803978	25	Lead	< 0.00015	μg/m3	SW846 6020A	Filter	06/10/2013

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 4 of 4

2013000192



CHAIN OF CUSTODY RECORD PROJECT NAME PROJ. NO OF CONTAINERS Pt Ruston LLC AIR MONITIANG SAMPLERS: (Signature) REMARKS COMP STA# SAMPLE NUMBER TIME DATE Š. 8690815 3/13 Lot 4B 13 OCF S OCF NW 4/13 OCF NW 113 OCF 5 13 OCF NW 13 W+1A Relinquished (Signature) Shipped via: FedEx, UPS Received by: (Signature) Lab Date/Time or Other 15108 Air Bill # Retinquished (Signature) Date/Time Received by: (Signature) Remarks elinquished (Signature) Date/Time Enclosed: Date/Time Received for Laboratory by: (Signature) Parameter List with DTLs

Split Samples:

]Accepted []Declined

Cover Letter

CHAIN OF CUSTODY RECORD

(0/3060192



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PROJ. NO)		PRC)JEC	TNAME 41-VOL)				/.	/	1 /	/	/	
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6/6/13		Fox	S.		8803997		1	X			il.			
6/6/13	OCT NW	,	X		8800196		1	×						
6/6/12	Lot 1A	32	X		8801995		1	×						
16/17	Lot 14		K,		8891994		1	X			Ñ.			
6/7/13	Lot 48		×		8803993		Become	×			* .			
6/7/13	OCF 5.	Take_g	×		8801992		1	X			x**			
6/7/17	OCTNW		×	25 A	8803991		1	X			30			,
6/7/13	Lot 14	,	×		8803990		9	X			i			* 12
6/7/13	1.0114	× .	X	*1	8803989		1	×						
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Relinquish	hed (<i>Signatu</i> i	re)	1		Date/Time	Received for	Labora	atory by	y: (Sign		*	ate/Tim		Enclosed: Parameter List with DTLs Cover Letter
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JUL 0 2 2013

06/28/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

06/17/2013

Spectra Project: 2013060359

							Date	
Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Sampled	
8803988	1	Arsenic	0.00026	μg/m3	SW846 6020A	Filter	06/10/2013	
8803988	1	Lead	0.0014	$\mu g/m3$	SW846 6020A	Filter	06/10/2013	
8803987	2	Arsenic	0.00025	μg/m3	SW846 6020A	Filter	06/10/2013	
8803987	2	Lead	0.0013	μg/m3	SW846 6020A	Filter	06/10/2013	
8803986	3	Arsenic	0.00049	μg/m3	SW846 6020A	Filter	06/10/2013	
8803986	3	Lead	0.0014	μg/m3	SW846 6020A	Filter	06/10/2013	
8803985	4	Arsenic	0.00021	μg/m3	SW846 6020A	Filter	06/10/2013	
8803985	4	Lead	0.0015	μg/m3	SW846 6020A	Filter	06/10/2013	
8803984	5	Arsenic	0.0021	μg/m3	SW846 6020A	Filter	06/10/2013	
8803984	5	Lead	0.0020	μg/m3	SW846 6020A	Filter	06/10/2013	
8803983	6	Arsenic	0.00048	μg/m3	SW846 6020A	Filter	06/11/2013	
8803983	6	Lead	0.0026	μg/m3	SW846 6020A	Filter	06/11/2013	
8803982	7	Arsenic	0.00046	μg/m3	SW846 6020A	Filter	06/11/2013	
8803982	7	Lead	0.0016	μg/m3	SW846 6020A	Filter	06/11/2013	
8803981	8	Arsenic	0.00050	μg/m3	SW846 6020A	Filter	06/11/2013	
8803981	8	Lead	0.0011	μg/m3	SW846 6020A	Filter	06/11/2013	

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06/28/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

06/17/2013

Spectra Project: 2013060359

Cli I I I	0 "	À 1	Dogula	TT	M-1-1		Date
Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Sampled
8803980	9	Arsenic	0.00033	$\mu g/m3$	SW846 6020A	Filter	06/11/2013
8803980	9	Lead	0.0014	μg/m3	SW846 6020A	Filter	06/11/2013
8803979	10	Arsenic	0.00079	μg/m3	SW846 6020A	Filter	06/11/2013
8803979	10	Lead	0.0033	μg/m3	SW846 6020A	Filter	06/11/2013
8803977	11	Arsenic	0.00044	μg/m3	SW846 6020A	Filter	06/12/2013
8803977	11	Lead	0.0012	μg/m3	SW846 6020A	Filter	06/12/2013
8803976	12	Arsenic	0.0037	μg/m3	SW846 6020A	Filter	06/12/2013
8803976	12	Lead	0.0090	μg/m3	SW846 6020A	Filter	06/12/2013
8803975	13	Arsenic	0.00054	μg/m3	SW846 6020A	Filter	06/12/2013
8803975	13	Lead	0.0019	μg/m3	SW846 6020A	Filter	06/12/2013
8803974	14	Arsenic	0.00018	μg/m3	SW846 6020A	Filter	06/12/2013
8803974	14	Lead	0.0040	μg/m3	SW846 6020A	Filter	06/12/2013
8803973	15	Arsenic	0.0011	μg/m3	SW846 6020A	Filter	06/12/2013
8803973	15	Lead	0.0064	μg/m3	SW846 6020A	Filter	06/12/2013
8803972	16	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	06/13/2013
8803972	16	Lead	0.00024	μg/m3	SW846 6020A	Filter	06/13/2013

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06/28/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

06/17/2013

Spectra Project: 2013060359

							Date
Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Sampled
8803971	17	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	06/13/2013
8803971	17	Lead	0.00035	μg/m3	SW846 6020A	Filter	06/13/2013
8803970	18	Arsenic	0.00034	μg/m3	SW846 6020A	Filter	06/13/2013
8803970	18	Lead	0.00054	μg/m3	SW846 6020A	Filter	06/13/2013
0003770	10	Loud	0.00031	μ ₀	5 110 10 002011	1 Inter	00/15/2015
8803969	19	Arsenic	0.0015	μg/m3	SW846 6020A	Filter	06/13/2013
8803969	19	Lead	0.0072	μg/m3	SW846 6020A	Filter	06/13/2013
		1					0.444.004.0
8803968	20	Arsenic	0.00016	μg/m3	SW846 6020A	Filter	06/13/2013
8803968	20	Lead	0.00049	μg/m3	SW846 6020A	Filter	06/13/2013
8803967	21	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	06/14/2013
8803967	21	Lead	0.00035	μg/m3	SW846 6020A	Filter	06/14/2013
8803966	22	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	06/14/2013
8803966	22	Lead	0.00058	μg/m3	SW846 6020A	Filter	06/14/2013
8803965	23	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	06/14/2013
8803965	23	Lead	< 0.00015	μg/m3	SW846 6020A	Filter	06/14/2013
8803964	24	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	06/14/2013
8803964	24	Lead	0.00026	μg/m3	SW846 6020A	Filter	06/14/2013

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06/28/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

06/17/2013

Spectra Project: 2013060359

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8803963	25	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	06/14/2013
8803963	25	Lead	0.00021	μg/m3	SW846 6020A	Filter	06/14/2013
8803952	26	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	06/17/2013
8803952	26	Lead	< 0.00015	μg/m3	SW846 6020A	Filter	06/17/2013

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 4 of 4

2013000359

CHAIN OF CUSTODY RECORD



PROJ. NO			PRC	JEC.	TNAME (HI-VOL))	"		7	. /	7	7	7	
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DATE	STA#	TIME	COMP	GRAB	SAMPLE NUMBER	*	NO. OF)					/ · · · · · · · · · · · · · · · · · · ·
6/10/13	40+4B		×		8803988		1	X						
6/10/13	OCF 5		人		8803987		1.	X						
1 ,	OCFNW		X		8803986		1	X						
6/10/13	Lot 1A		九		8803985		1	X						
6/10/13	6+14		Λ		8803984		ĺ	×						
6/11/13	Not 4B		*		8803983		1	X			_			
4/1/13	OCF S		X		8803982		1	V.						
41/13	OCF NW	ı	X		8803981		İ	4						
4.10	Lit IA		X		8803980		1	V						
6/11/13	Lot 14		X		8803979		1	X						
6/12/13	Lot 4.B		×		8803977		1	Х						
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COC Form	- 7/12													Signature

CHAIN OF CUSTODY RECORD

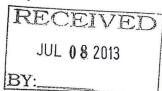
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PROJ. NO)		PRC)JEC	TNAME (HI-VOL)			7	/	1	7 /	
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DATE	STA#	TIME	COMP	GRAB	SAMPLE NUMBER	NO ON	/\	7				
413/13	Lot 4B		Y	-	8803972	- 1	X			. 8		
11111	OCF 5	*.	×	-	8803971	1	L			. 4		
1/13/12	OCF NW		×	,	8803970	1.	4			,		4.5
(13/13 (13/13	Lot 1A.		X		8801969	1	X					
1/13/17	Vot14.		人		8803968		X					
1/1/12	Lot 4B.	Protection.	X		8803967	1	X					
1/11/13	OCF S		X	*	8803966	1	×			· · · kis		
UNID	OCF NW		X		8803965	1	X.					
1/4/13	Lot 1A		X	,	8803964	1	X					
414/13	hot 14		X		8803963	1	X			N/II		
6/17/12	Lot 1A Lot 14 Control		Y		8803952	1	X					
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www.spectra-lab.com



07/03/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

06/24/2013

Spectra Project:

2013060555

Cliant ID	C	A	Dogult	Y Y 'A	Madad		Date
Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Sampled
8803961	1	Arsenic	< 0.015	μg/m3	SW846 6010B	Filter	06/17/2013
8803961	1	Lead	< 0.012	μg/m3	SW846 6010B	Filter	06/17/2013
8803960	2	Arsenic	< 0.015	μg/m3	SW846 6010B	Filter	06/17/2013
				-			
8803960	2	Lead	< 0.012	μg/m3	SW846 6010B	Filter	06/17/2013
8803956	3	Arsenic	< 0.015	μg/m3	SW846 6010B	Filter	06/18/2013
8803956	3	Lead	< 0.012	μg/m3	SW846 6010B	Filter	06/18/2013
8803955	4	Arsenic	< 0.015	μg/m3	SW846 6010B	Filter	06/18/2013
8803955	4	Lead	< 0.012	μg/m3	SW846 6010B	Filter	06/18/2013
8803950	5	Arsenic	< 0.015	μg/m3	SW846 6010B	Filter	06/19/2013
8803950	5	Lead	< 0.012	μg/m3	SW846 6010B	Filter	06/19/2013
8803949	6	Arsenic	< 0.015	μg/m3	SW846 6010B	Filter	06/19/2013
8803949	6	Lead	< 0.012	μg/m3	SW846 6010B	Filter	06/19/2013
8803945	7	Arsenic	< 0.015	μg/m3	SW846 6010B	Filter	06/20/2013
8803945	7	Lead	0.012	μg/m3	SW846 6010B	Filter	06/20/2013
8803944	8	Arsenic	< 0.015	μg/m3	SW846 6010B	Filter	06/20/2013
8803944	8	Lead	< 0.012	μg/m3	SW846 6010B	Filter	06/20/2013

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07/03/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

06/24/2013

Spectra Project: 2013060555

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8803940	9	Arsenic	< 0.015	μg/m3	SW846 6010B	Filter	06/21/2013
8803940	9	Lead	< 0.012	μg/m3	SW846 6010B	Filter	06/21/2013
8803939	10 -	Arsenic	<0.015	μg/m3	SW846 6010B	Filter	06/21/2013
8803939	10	Lead	<0.012	μg/m3	SW846 6010B	Filter	06/21/2013
8803926	11	Arsenic	< 0.015	μg/m3	SW846 6010B	Filter	06/24/2013
8803926	11	Lead	< 0.012	μg/m3	SW846 6010B	Filter	06/24/2013

SPECTRA LABORATORIES

2013010555

POINT RUSTON 5219 N. Shirley Street, Suite 100, Tacoma, WA 98407 Phone: 253-752-2185 Fax: 253-752-7083

CHAIN OF CUSTODY RECORD

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PROJ. NO)		PRC	JEC.	TNAME (LICI	1			- /				/	
AIRI	Mond	bunda		6	t Ruston ucd	プート	VERS		N	1/				
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DATE	STA#	TIME	COMP	GRAB	SAMPLE NUMBER		NO. OF					/_/		
6/17/13			×		8803961		1	X						
6/17/13	OCF NW		X		8803960		1.	X						
6/8/13	OCF S		×		8803956		1	X						9
418/17	OCF NW		1		8803955		1	X						
6/19/13	OCL S		X		8803950		1	X			·			ICP
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07/03/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (Hi-Vol)

Date Received:

06/25/2013

Spectra Project: 2013060576

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8803962	1	Arsenic	0.0014	μg/m3	SW846 6020A	Filter	06/17/2013
8803962	1	Lead	0.0037	μg/m3	SW846 6020A	Filter	06/17/2013
8803959	2	Arsenic	0.00095	μg/m3	SW846 6020A	Filter	06/17/2013
8803959	2	Lead	0.0028	μg/m3	SW846 6020A	Filter	06/17/2013
8803958	3	Arsenic	0.0026	μg/m3	SW846 6020A	Filter	06/17/2013
8803958	3	Lead	0.0078	μg/m3	SW846 6020A	Filter	06/17/2013
8803957	4	Arsenic	0.00073	μg/m3	SW846 6020A	Filter	06/18/2013
8803957	4	Lead	0.0029	μg/m3	SW846 6020A	Filter	06/18/2013
8803954	5	Arsenic	0.00090	μg/m3	SW846 6020A	Filter	06/18/2013
8803954	5	Lead	0.0033	μg/m3	SW846 6020A	Filter	06/18/2013
8803953	6	Arsenic	0.00099	μg/m3	SW846 6020A	Filter	06/18/2013
8803953	6	Lead	0.0029	μg/m3	SW846 6020A	Filter	06/18/2013
8803951	7	Arsenic	0.00057	μg/m3	SW846 6020A	Filter	06/19/2013
8803951	7	Lead	0.0029	μg/m3	SW846 6020A	Filter	06/19/2013
8803948	8	Arsenic	0.00085	μg/m3	SW846 6020A	Filter	06/19/2013
8803948	8	Lead	0.0030	μg/m3	SW846 6020A	Filter	06/19/2013

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07/03/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (Hi-Vol)

Date Received:

06/25/2013

Spectra Project: 2013060576

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8803947	9	Arsenic	0.0011	μg/m3	SW846 6020A	Filter	06/19/2013
8803947	9	Lead	0.0040	μg/m3	SW846 6020A	Filter	06/19/2013
8803946	10	Arsenic	0.0012	μg/m3	SW846 6020A	Filter	06/20/2013
8803946	10	Lead	0.0056	μg/m3	SW846 6020A	Filter	06/20/2013
2222242					G1110.4.5.400.4		0.6/00/0010
8803943	11	Arsenic	0.0011	μg/m3	SW846 6020A	Filter	06/20/2013
8803943	11	Lead	0.0035	μg/m3	SW846 6020A	Filter	06/20/2013
8803942	12	Arsenic	0.0012	μg/m3	SW846 6020A	Filter	06/20/2013
8803942	12	Lead	0.0036	μg/m3	SW846 6020A	Filter	06/20/2013
8803941	13	Arsenic	0.0021	μg/m3	SW846 6020A	Filter	06/21/2013
8803941	13	Lead	0.0035	μg/m3	SW846 6020A	Filter	06/21/2013
8803938	14	Arsenic	0.0021	μg/m3	SW846 6020A	Filter	06/21/2013
8803938	14	Lead	0.0044	μg/m3	SW846 6020A	Filter	06/21/2013
8803937	15	Arsenic	0.0026	μg/m3	SW846 6020A	Filter	06/21/2013
8803937	15	Lead	0.0045	μg/m3	SW846 6020A	Filter	06/21/2013

SPECTRA LABORATORIES

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CHAIN OF CUSTODY RECORD

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4/7/13 W448	X		8803962		1	<						·
6/17/13 Lot 1A	X	J. 3.	8803959		1.	V						
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6/18/13 Lot 14	X		8803953		1	<						
6/19/13 Let 4B	X		8803951		1	1					_	
U19/13/14/1A	X		8803948		1	X						
6/19/13 6+14	入		8803947		1	X						
120/12 6+4B	X		8803946		1	Х						
G/20/13 Lot 1A	X		8803943		1	×						HI-VOLUME
(120/13 Lot 14)	X		8803942	*		4						HI-VULUME SAMPLEX LOG
421/13 Lat 4B	X)	8803941		1	X	•					TUCLUDED
4/21/13 Lot 1A	X		8803938		1	X						
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07/08/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

07/01/2013

Spectra Project: 2013070029

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8803935	1	Arsenic	< 0.004	μg/m3	SW846 6010B	Filter	06/24/2013
8803935	1	Lead	< 0.004	μg/m3	SW846 6010B	Filter	06/24/2013
8803934	2	Arsenic	< 0.004	μg/m3	SW846 6010B	Filter	06/24/2013
8803934	2	Lead	< 0.004	μg/m3	SW846 6010B	Filter	06/24/2013
8803930	3	Arsenic	< 0.004	μg/m3	SW846 6010B	Filter	06/26/2013
8803930	3	Lead	< 0.004	μg/m3	SW846 6010B	Filter	06/26/2013
8803929	4	Arsenic	< 0.004	μg/m3	SW846 6010B	Filter	06/26/2013
8803929	4	Lead	< 0.004	μg/m3	SW846 6010B	Filter	06/26/2013
8803924	5	Arsenic	< 0.004	μg/m3	SW846 6010B	Filter	06/28/2013
8803924	5	Lead	0.004	μg/m3	SW846 6010B	Filter	06/28/2013
8803923	6	Arsenic	< 0.004	μg/m3	SW846 6010B	Filter	06/28/2013
8803923	6	Lead	0.004	μg/m3	SW846 6010B	Filter	06/28/2013

SPECTRA LABORATORIES

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CHAIN OF CUSTODY RECORD

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07/08/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received: Spectra Project: 2013070030

07/01/2013

							Date
Client ID	Spectra #	Analyte	Result	<u>Units</u>	Method	Matrix	Sampled
8803936	1	Arsenic	0.0011	μg/m3	SW846 6020A	Filter	06/24/2013
8803936	1	Lead	0.0017	μg/m3	SW846 6020A	Filter	06/24/2013
8803933	2	Arsenic	0.0012	μg/m3	SW846 6020A	Filter	06/24/2013
8803933	2	Lead	0.0019	μg/m3	SW846 6020A	Filter	06/24/2013
8803932	3	Arsenic	0.0017	μg/m3	SW846 6020A	Filter	06/24/2013
8803932	3	Lead	0.0016	μg/m3	SW846 6020A	Filter	06/24/2013
8803932	3	Lead	0.0010	μg/ш5	5 W 840 0020A	Titter	00/24/2015
8803931	4	Arsenic	0.0014	μg/m3	SW846 6020A	Filter	06/26/2013
8803931	4	Lead	0.0015	μg/m3	SW846 6020A	Filter	06/26/2013
8803928	5	Arsenic	0.0017	μg/m3	SW846 6020A	Filter	06/26/2013
8803928	5	Lead	0.0030	μg/m3	SW846 6020A	Filter	06/26/2013
8803927	6	Arsenic	0.0029	μg/m3	SW846 6020A	Filter	06/26/2013
8803927	6	Lead	0.0028	$\mu g/m3$	SW846 6020A	Filter	06/26/2013
8803925	7	Arsenic	0.0013	μg/m3	SW846 6020A	Filter	06/28/2013
8803925	7	Lead	0.0023	μg/m3	SW846 6020A	Filter	06/28/2013
8803922	8	Arsenic	0.0017	μg/m3	SW846 6020A	Filter	06/28/2013
			7.2.2.0.1				
8803922	8	Lead	0.0039	μg/m3	SW846 6020A	Filter	06/28/2013

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07/08/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

07/01/2013

Spectra Project: 2013070030

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8803921	9	Arsenic	0.0027	μg/m3	SW846 6020A	Filter	06/28/2013
8803921	9	Lead	0.0040	μg/m3	SW846 6020A	Filter	06/28/2013

SPECTRA LABORATORIES

CHAIN OF CUSTODY RECORD

2013070030



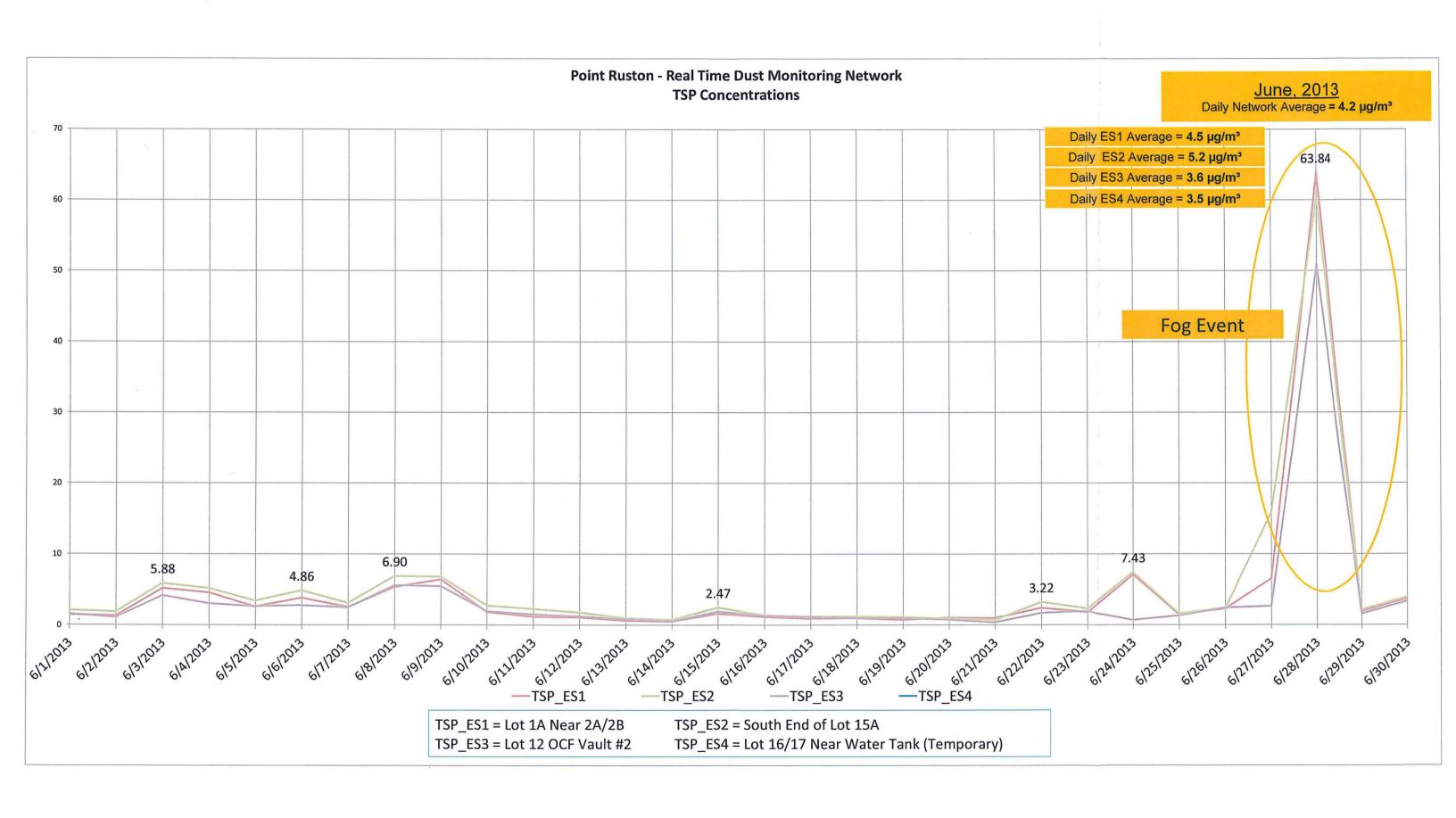
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(126/13	Lot 4B		×		8803931		1	X									
(/26/13	411		人		8803928		1	X						*			,
6/26/13	Lot 14.		人		8803927		1	X									
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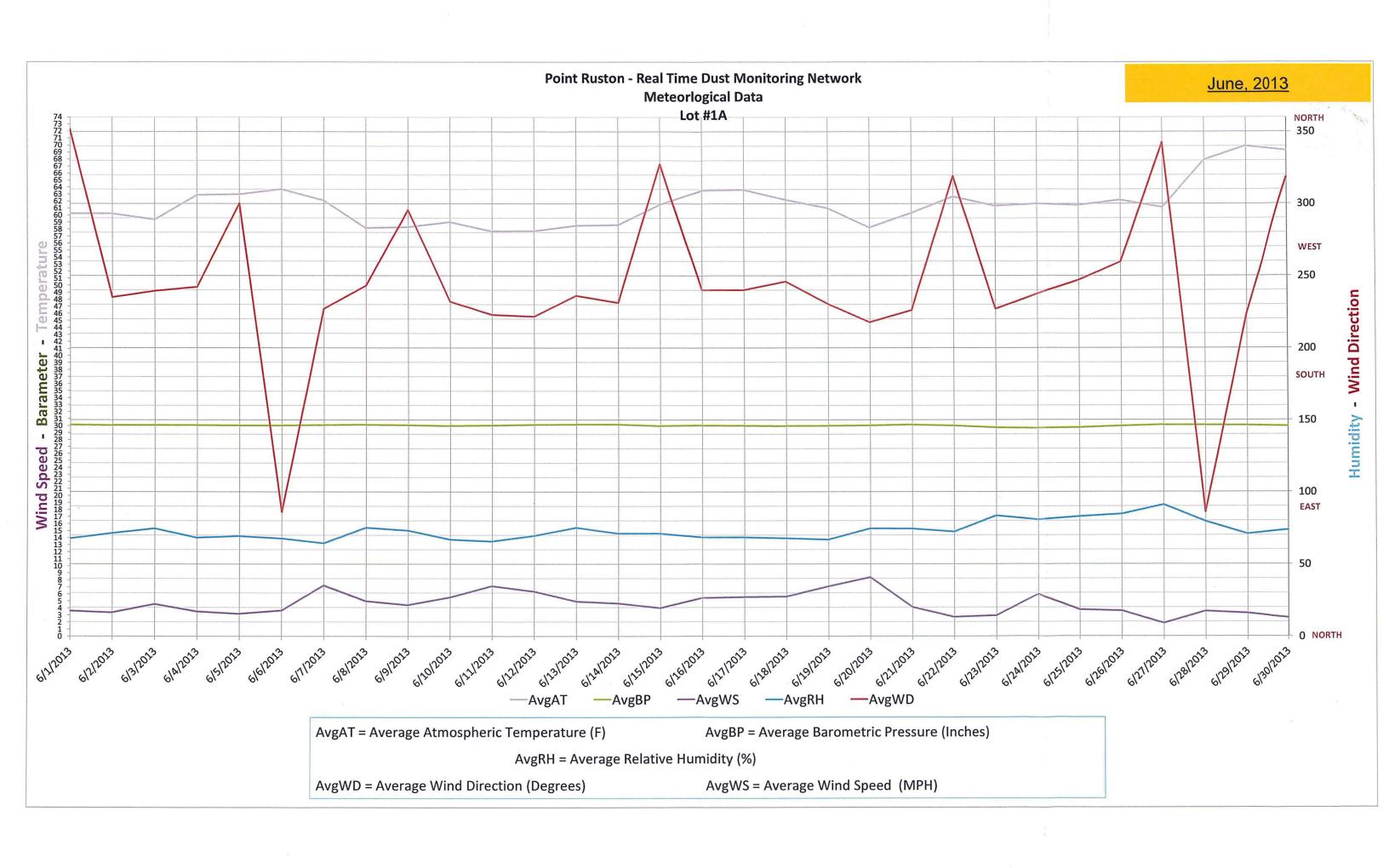
REAL TIME TOTAL SUSPENDED PARTICULATE MONITORING

DATA

(E-SAMPLER NETWORK)

Reference	Date	Description
Monthly TSP Chart	06/01 – 06/30	Chart showing 60-minute averages for June 2013
Monthly Met Data Chart	06/01 – 06/30	Chart showing meteorological data averages for June 2013





Monthly Report 205, June 2013 Operable Unit 02 Asarco Tacoma Smelter Site

MISCELLANEOUS

INFORMATION

Reference	Date	Description	
Memo	06/27/13	Recent Area Earthquake (Seismic Event)	
		*	
		*	

MEMORANDUM

June 27, 2013

SUBJECT: RECENT AREA EARTHQUAKES (SEISMIC EVENTS)

The OCF-OMMP addresses response to earthquake events under section 2:

2.1.7 Earthquake Damage

"Should a significant seismic event occur in close proximity to the OCF, a postearthquake inspection will be completed to assess potential damage to the OCF embankment and cover system. A two-tier inspection program will be used to allow for a rapid assessment of earthquake damage. The first-tier will consist of a preliminary inspection that will be followed up by a more detailed assessment and evaluation (secondtier). First-tier inspection activities will be initiated within 48 hours of the seismic event. The need and schedule for second-tier activities will be identified based on the results from the First-Tier inspection.

Table 2-4 identifies the requirements for potential earthquake inspection at the OCF."**

On June 27, 2013 at about 02:45 AM a magnitude 4.3 earthquake was reported approximately 92.5 miles northeast (NE) of the Onsite Containment Facility (OCF), near Leavenworth, WA. Tremors were reported felt as far west as Quilcene, WA and as far south as Tenino, WA. Intensity in the Tacoma area was reported as "weak" with no damage. An inspection for visual damage of the OCF Cap and Embankment, Benchmarks, and LCRS & LDCRS Systems was completed at about 13:00 on June 27th following the earthquake. No visible damages or impacts to the OCF or leachate collection systems were noticed. A First-Tier Inspection was not conducted as there were no noticeable effects and the quake was not considered to be a significant seismic event**.

Sincerely,

Tim Rusher Construction Oversight/Health & Safety Officer

TABLE 2-4. POST-EARTHQUAKE DAMAGE INSPECTION REQUIREMENTS

Item	Inspection	First-Tier Inspection	Second-Tier Inspection
OCF Cap and Embankment	Visual damage	Inspect OCF cap for visual damage, gross displacements, cracked or damaged concrete or sidewalks, cracked embankment fill, sand boils from foundation outboard of embankment, damaged irrigation system and other visual damage.	Possible subsurface investigation of damaged areas and assessment of postearthquake embankment stability.
Benchmarks	Horizontal and vertical displacement	Survey OCF benchmarks and tie with site wide controls.	Evaluate monument displacement. Assess need for and conduct ongoing monitoring.
LCRS and LDCRS	Operation and leachate volumes	Inspect pumps, piping, electrical, leachate tank, vault, and instrumentation and phone dialer/alarm system.	Evaluate post-earthquake LDCRS flow rate and compare with rate for previous reporting period.
Cap underdrain systems	System integrity and function.	Complete visual inspection of manholes and drainpipe inverts, and drain system outfall.	Perform visual inspection of drain system operation during storm event following earthquake. Conduct subsurface investigation to evaluate integrity of drainpipe in areas of apparent damage.

The United States Geological Society (USGS) defines a "Significant" earthquake as, "[E]arthquakes of magnitude 6.5 or greater or ones that caused fatalities, injuries or substantial damage".

USGS historical listings of "significant" global earthquakes between 1977 and 2010 do not record any earthquakes below 3.0 magnitude. Earthquake magnitude, local shaking, damage reports and proximity should be considered when determining the level of inspection needed outlined in the OCF-OMMP.

^{**}Comments regarding "significant seismic event"